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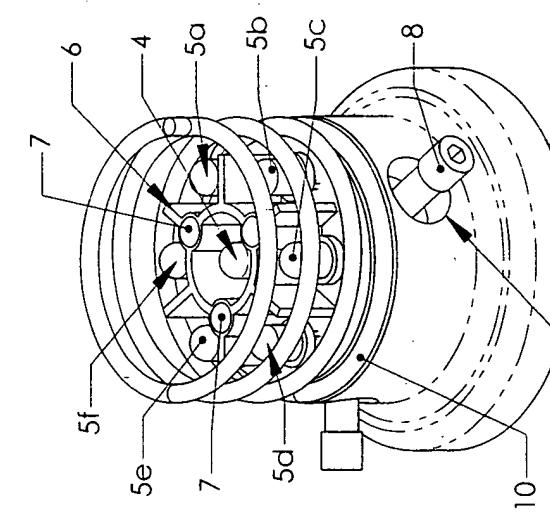


Fig. 1C

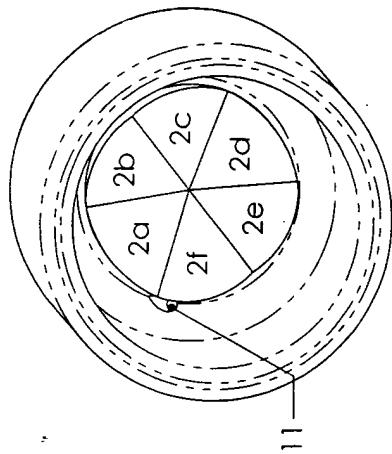


Fig. 2

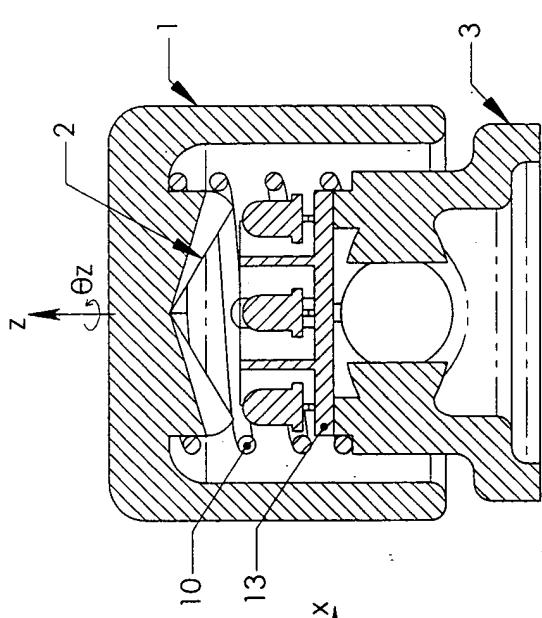


Fig. 1B

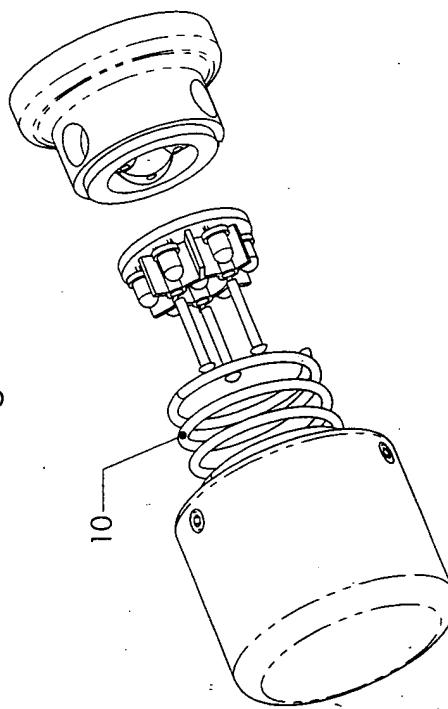


Fig. 1E

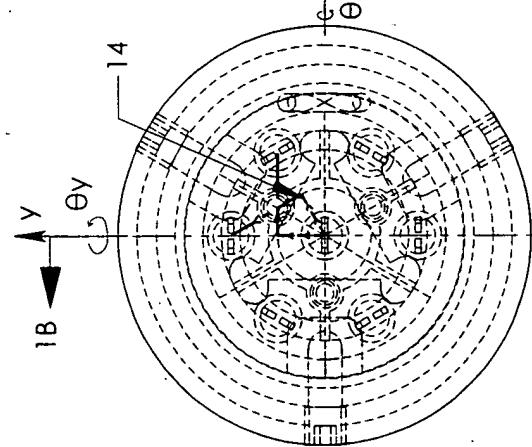


Fig. 1A

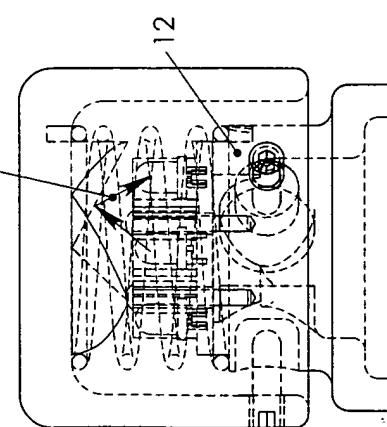
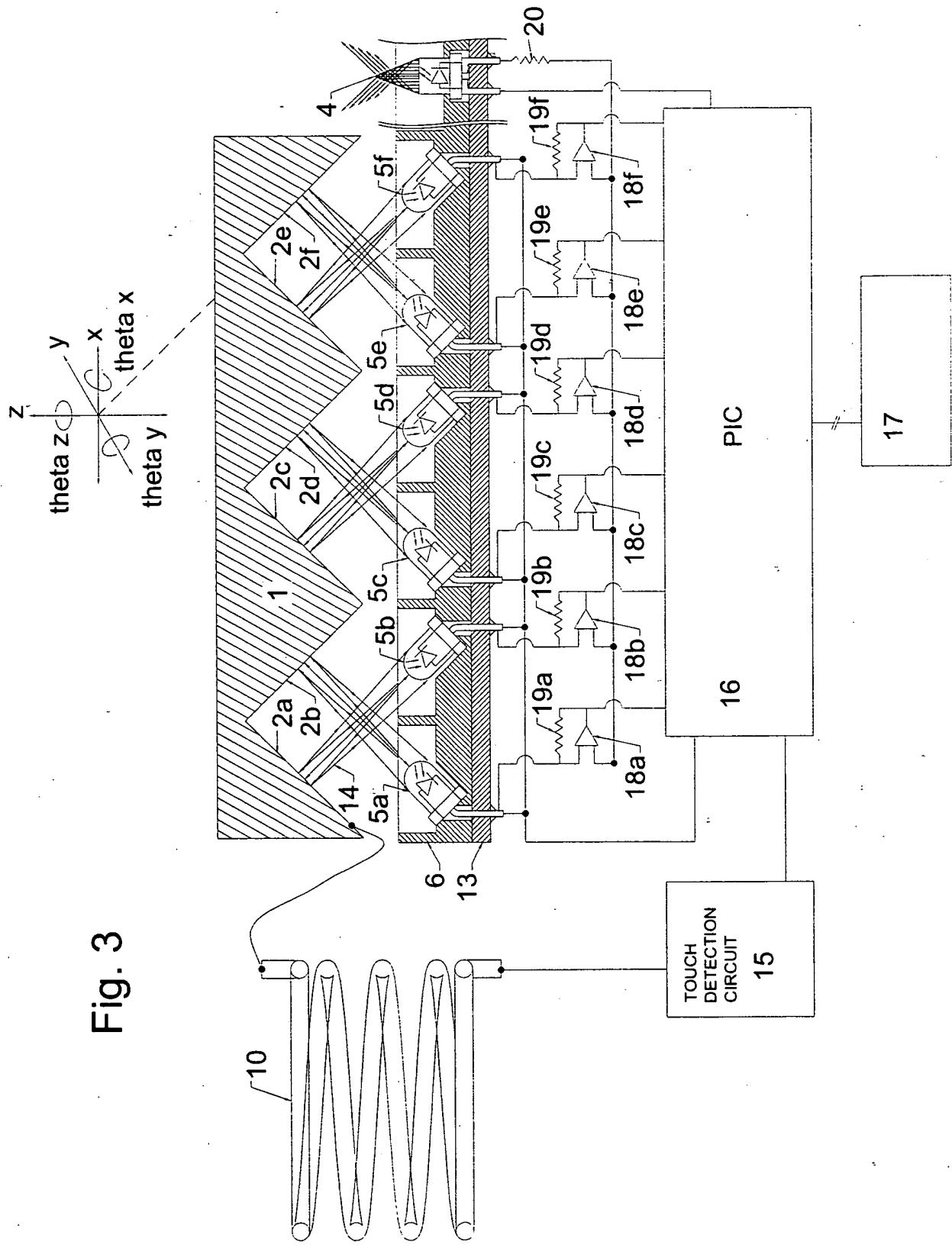


Fig. 1B

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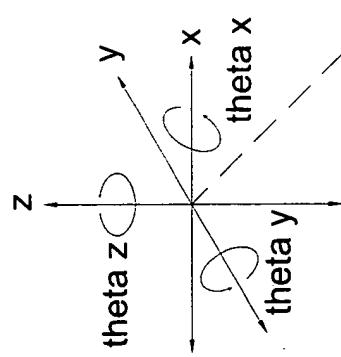


Fig. 4

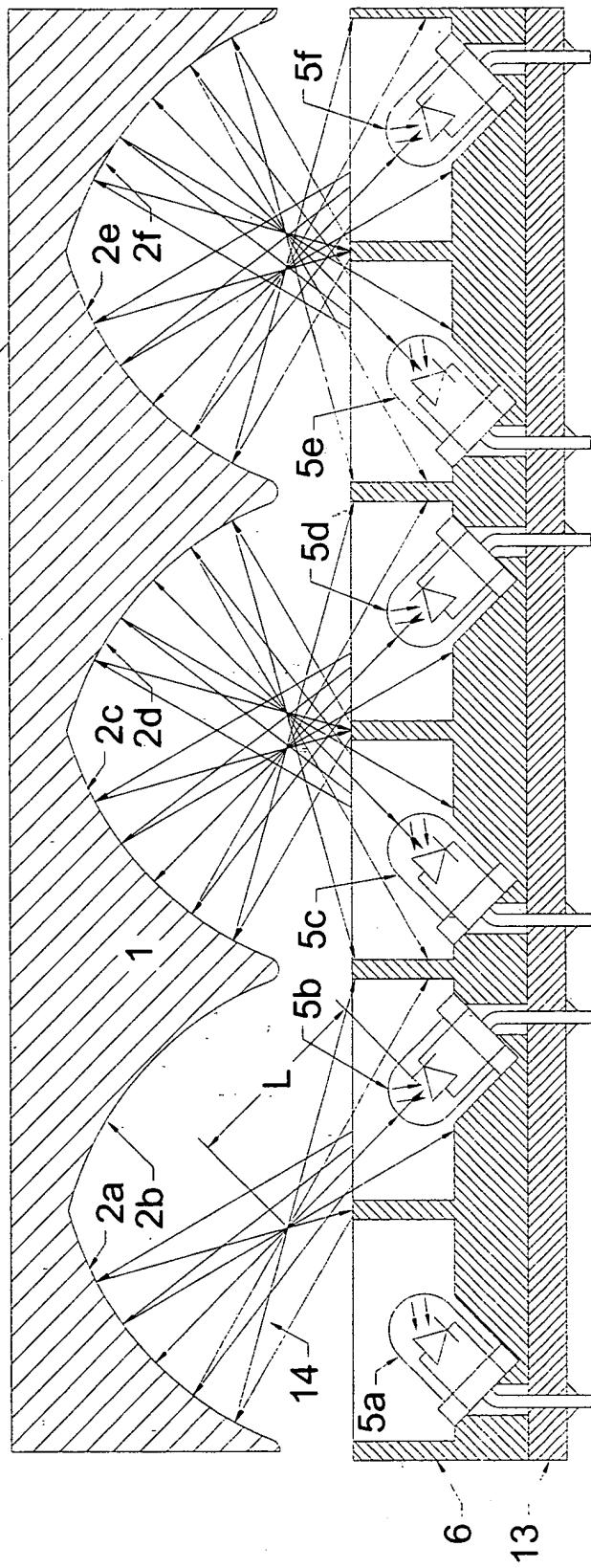
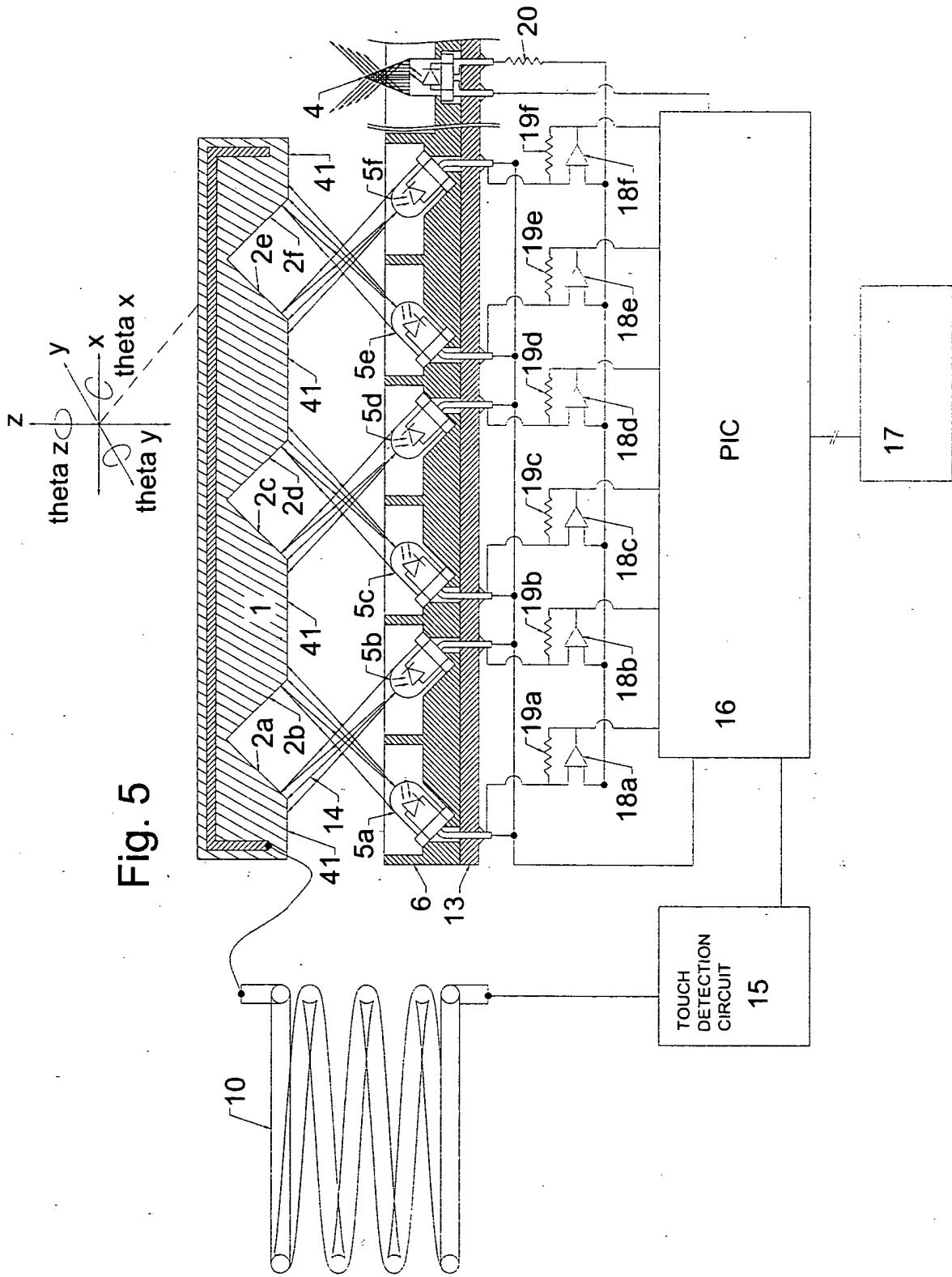


Fig. 5



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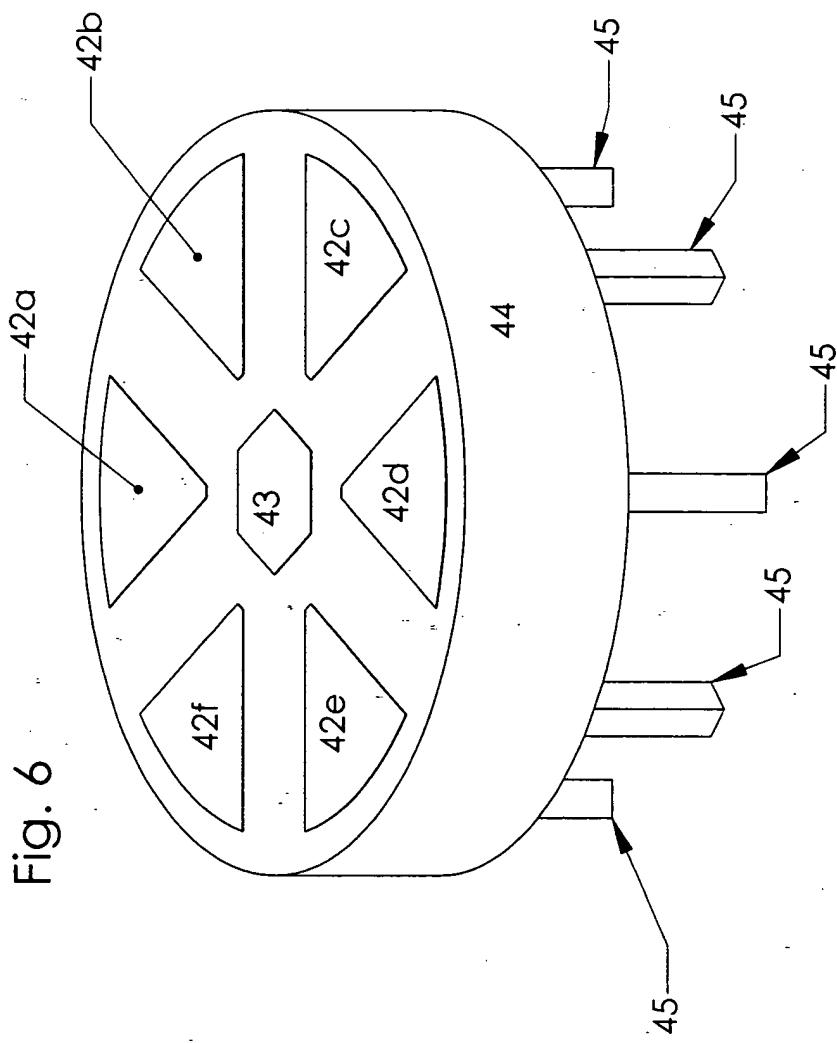


Fig. 6

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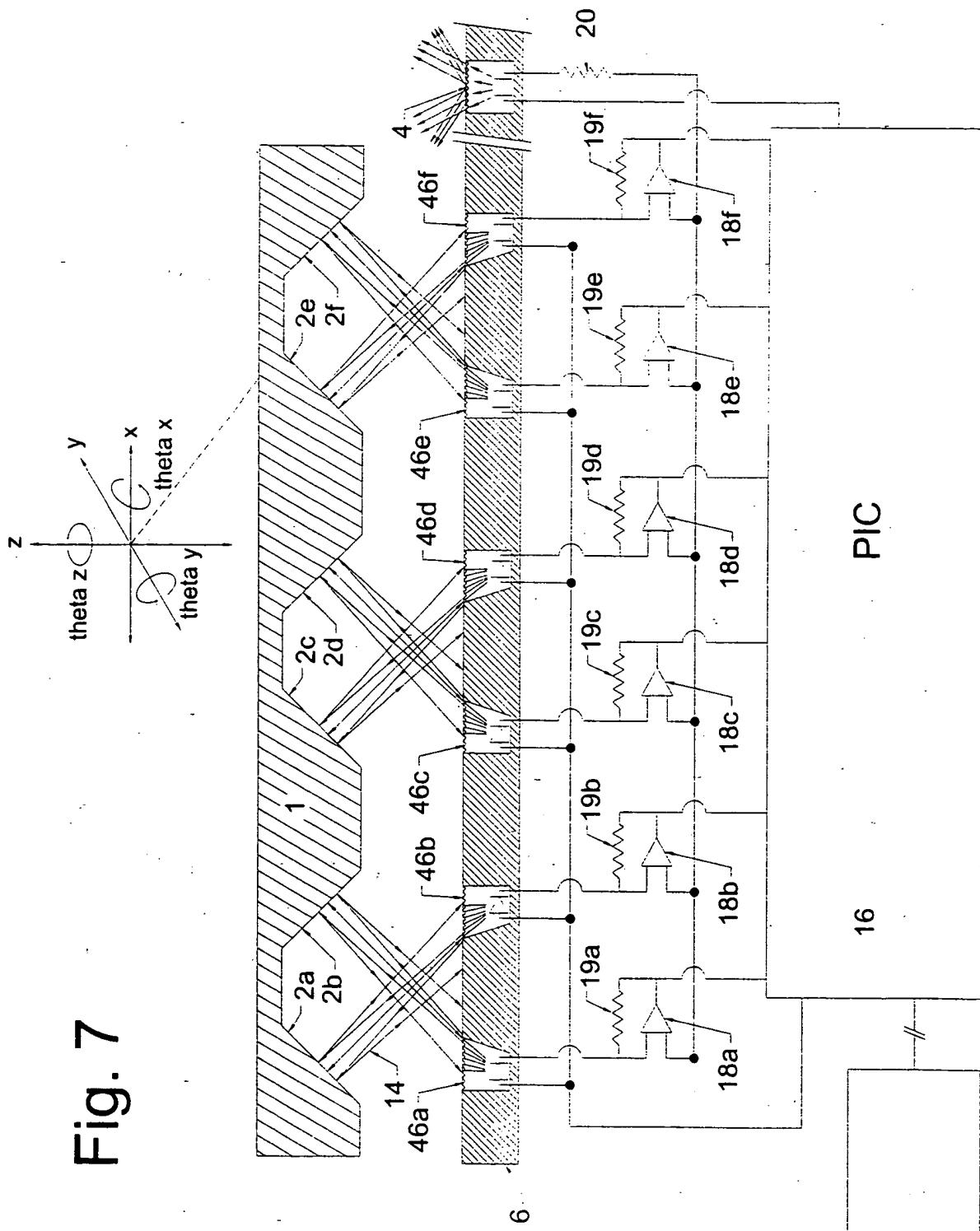


Fig. 7

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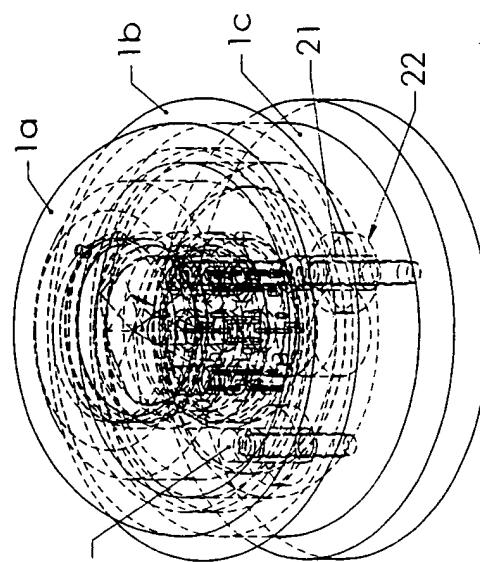


Fig. 8C

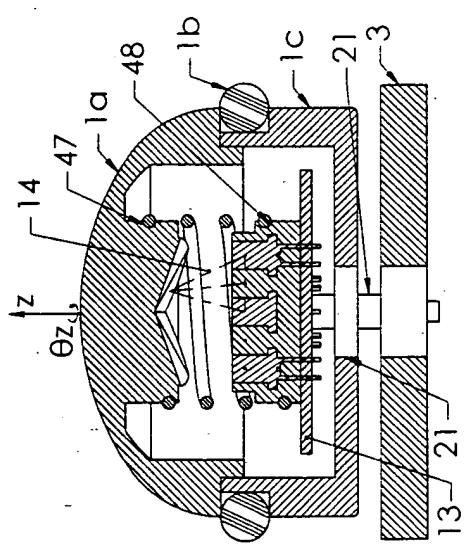


Fig. 8B

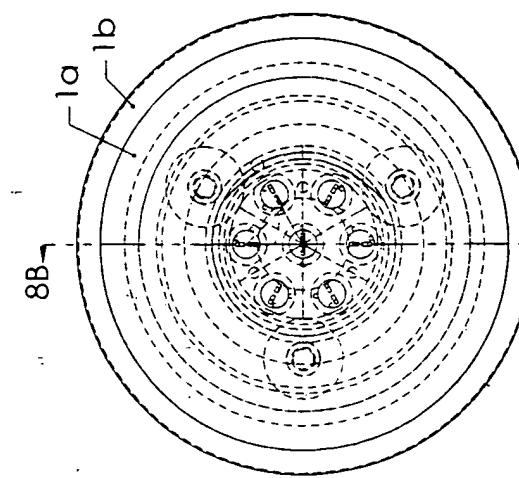


Fig. 8A

8B

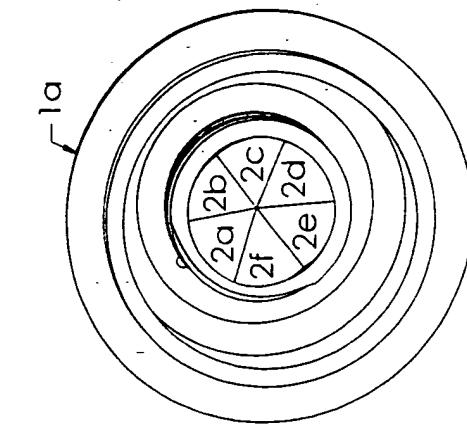


Fig. 9

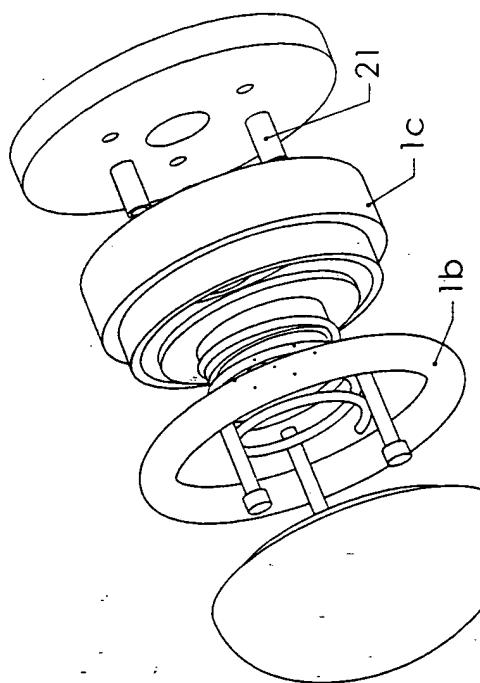


Fig. 8E

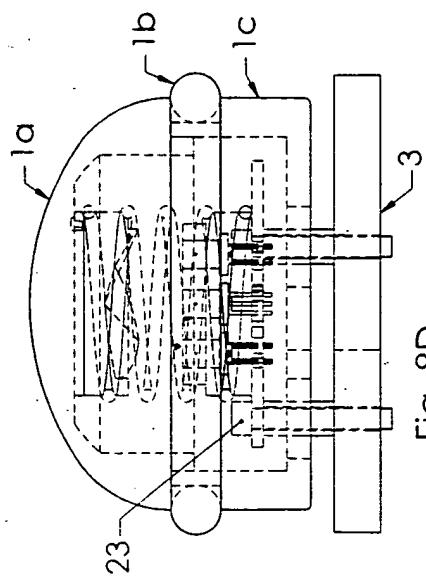


Fig. 8D

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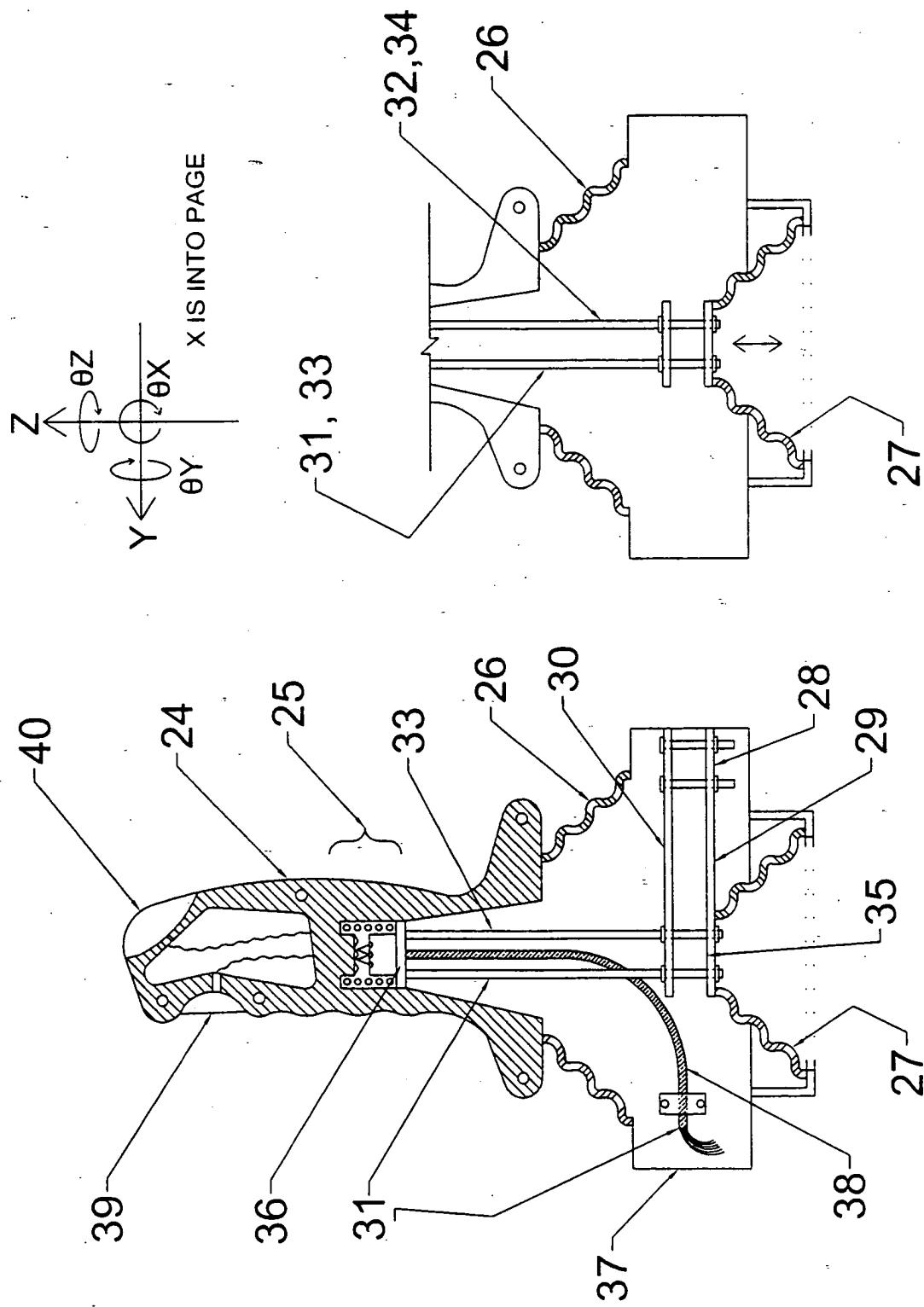


Fig. 10A
Fig. 10B

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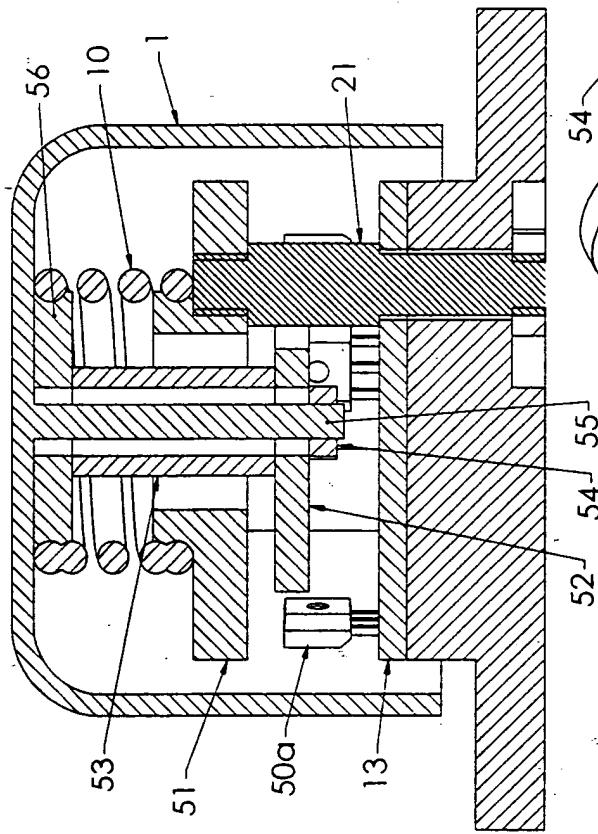


Fig. 11B

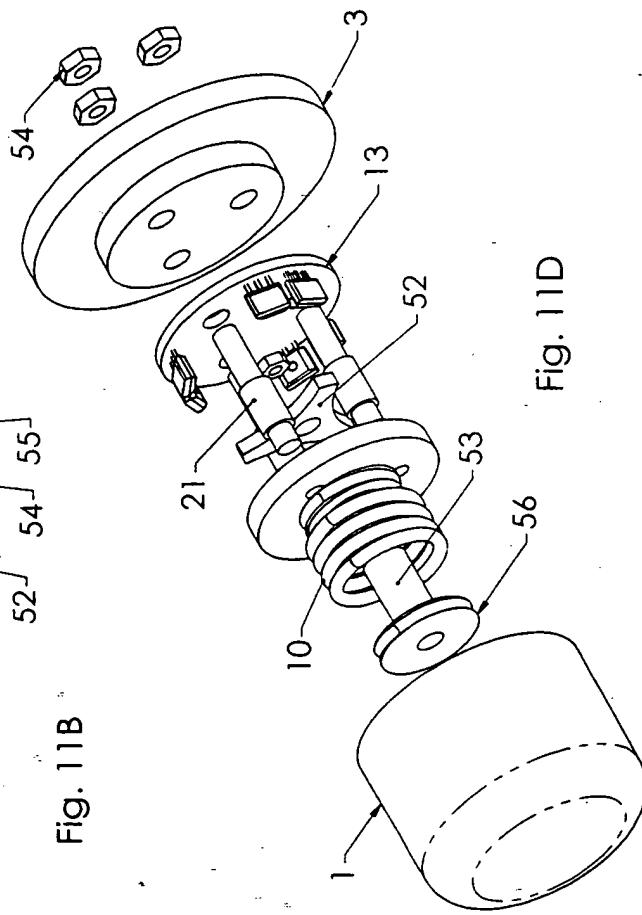


Fig. 11D

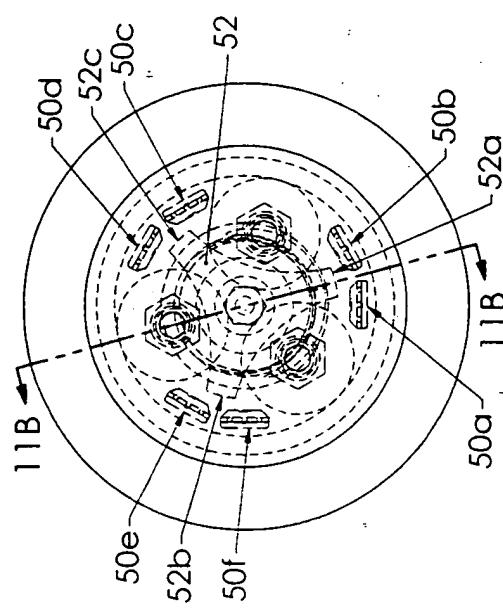


Fig. 11A

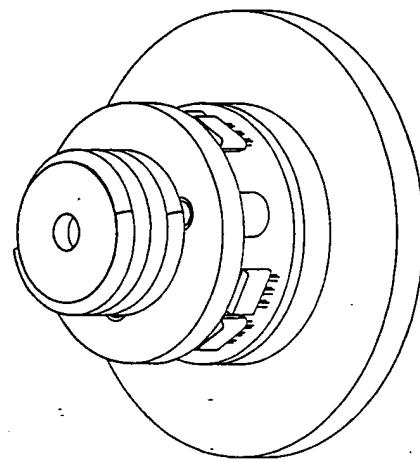


Fig. 11C

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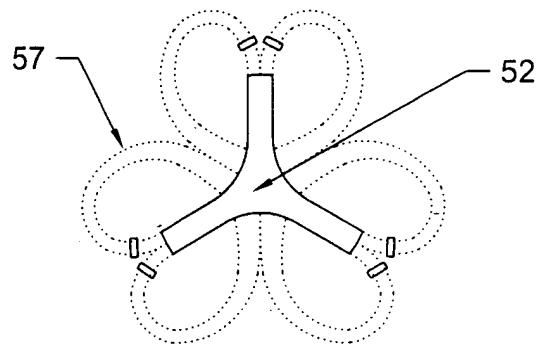


Fig. 12

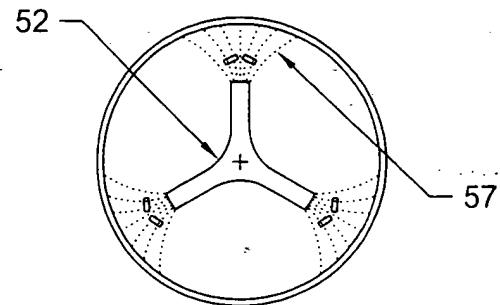


Fig. 13

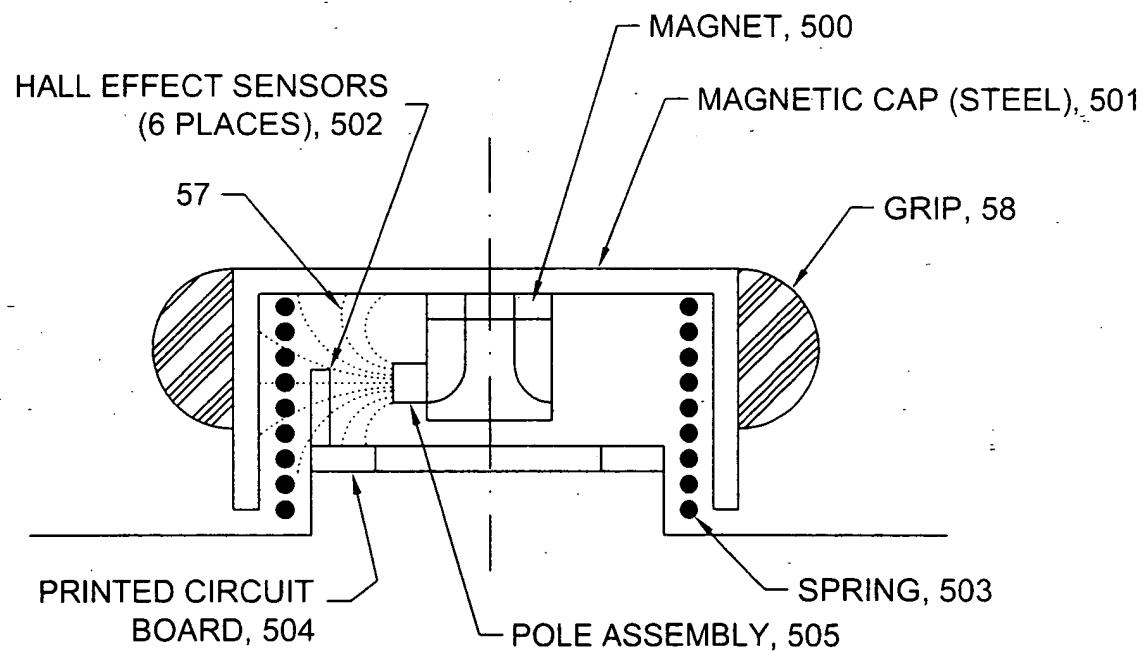


Fig. 13

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PRINTED CIRCUIT BOARD DETAIL

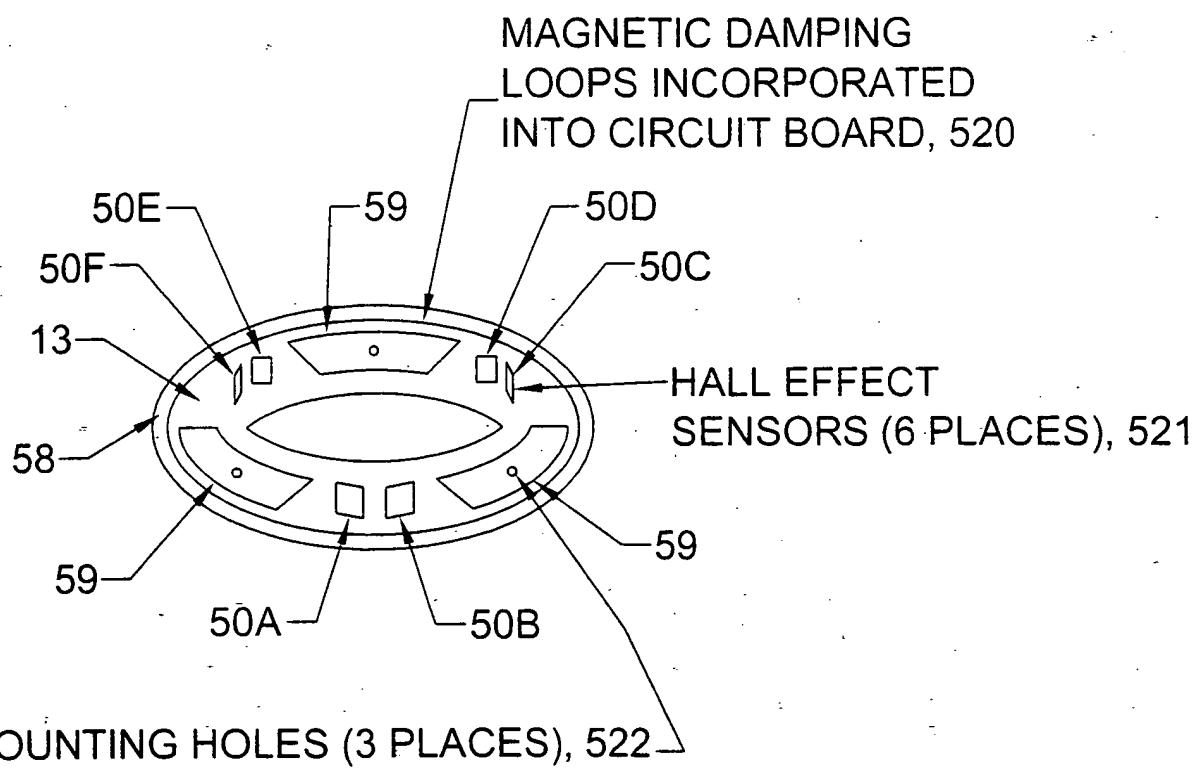


Fig. 14

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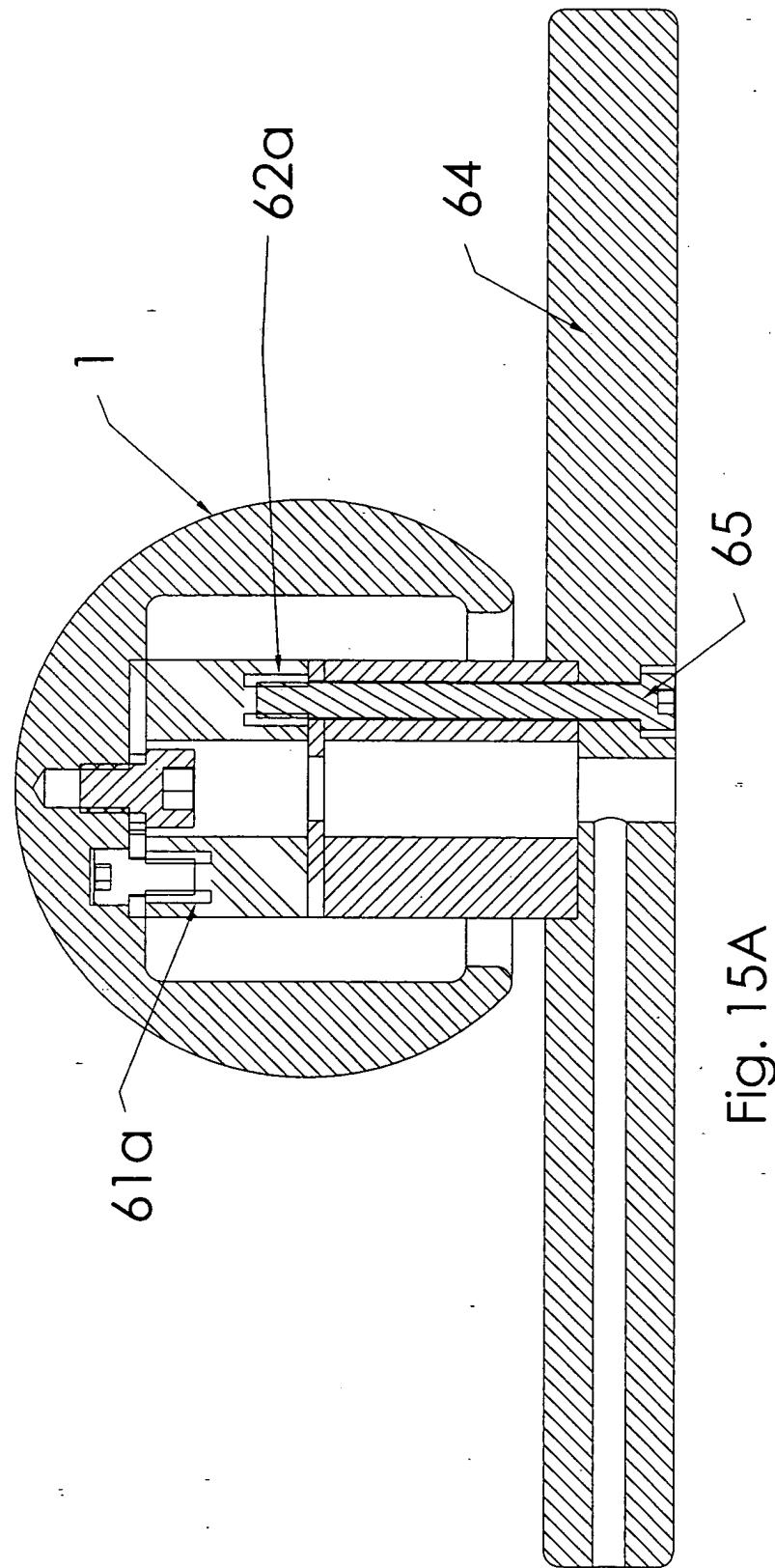


Fig. 15A

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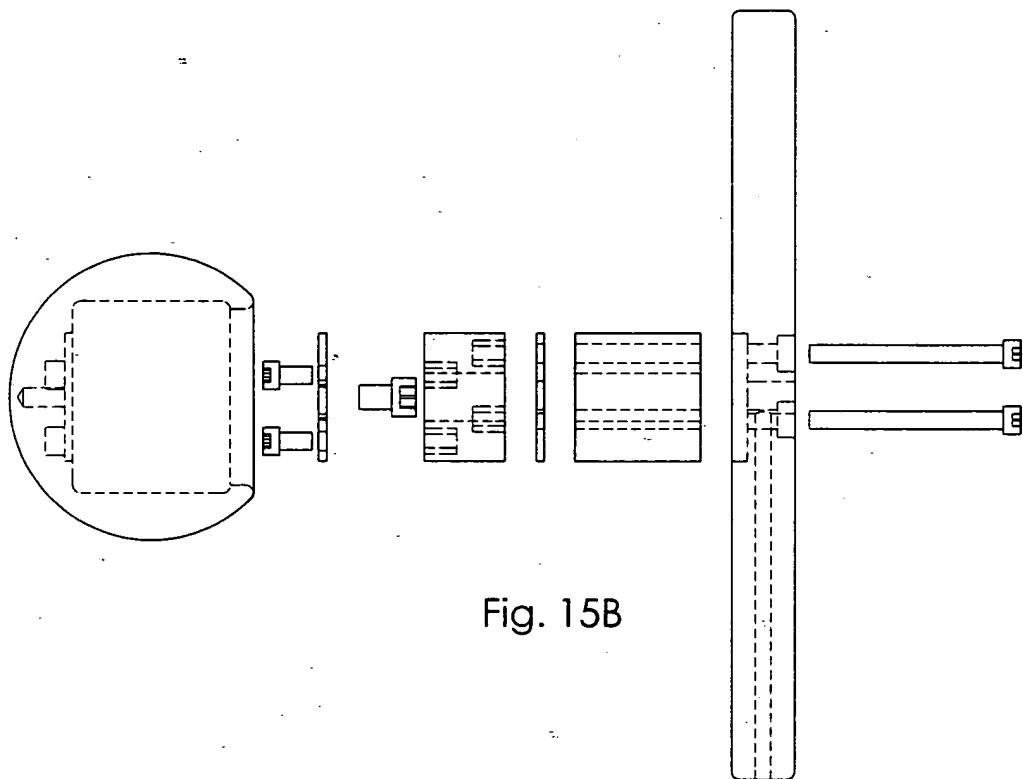


Fig. 15B

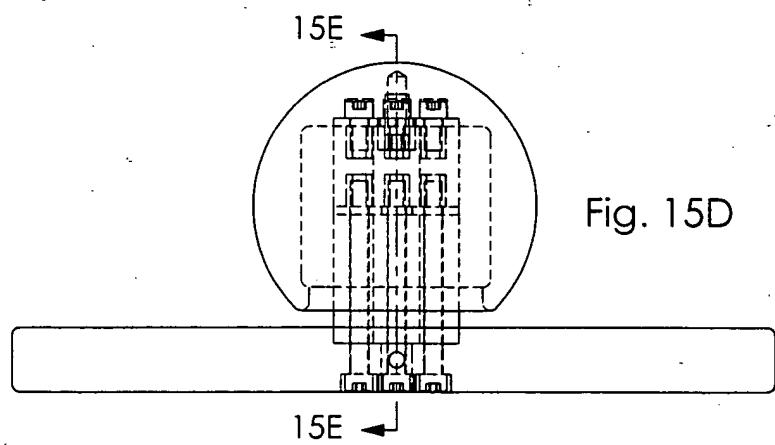
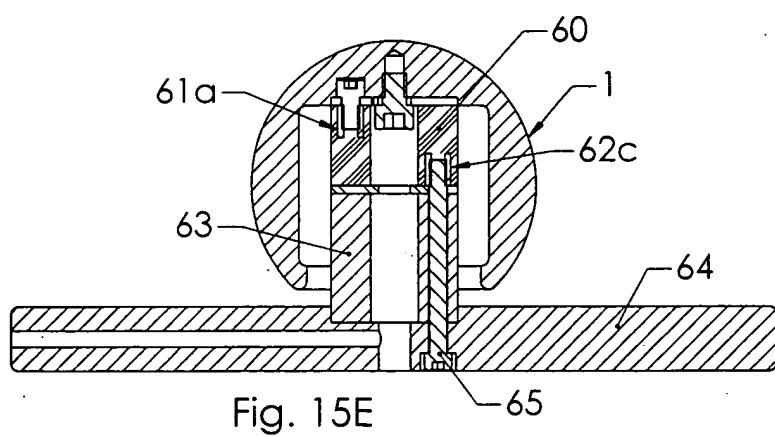
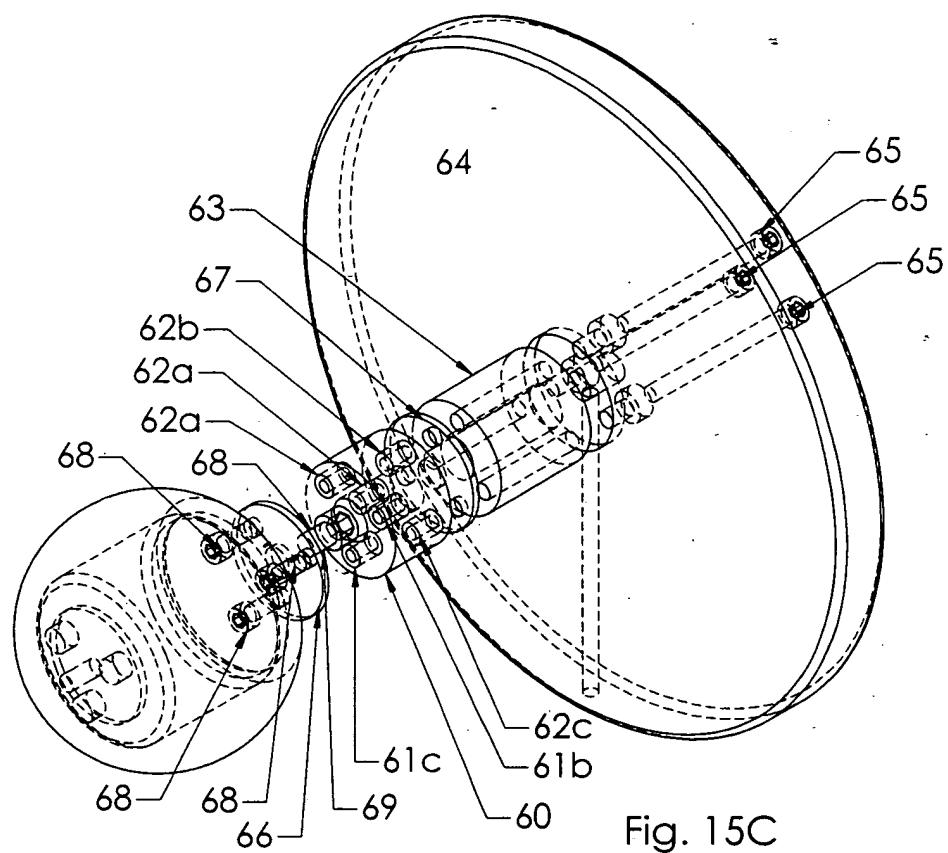


Fig. 15D

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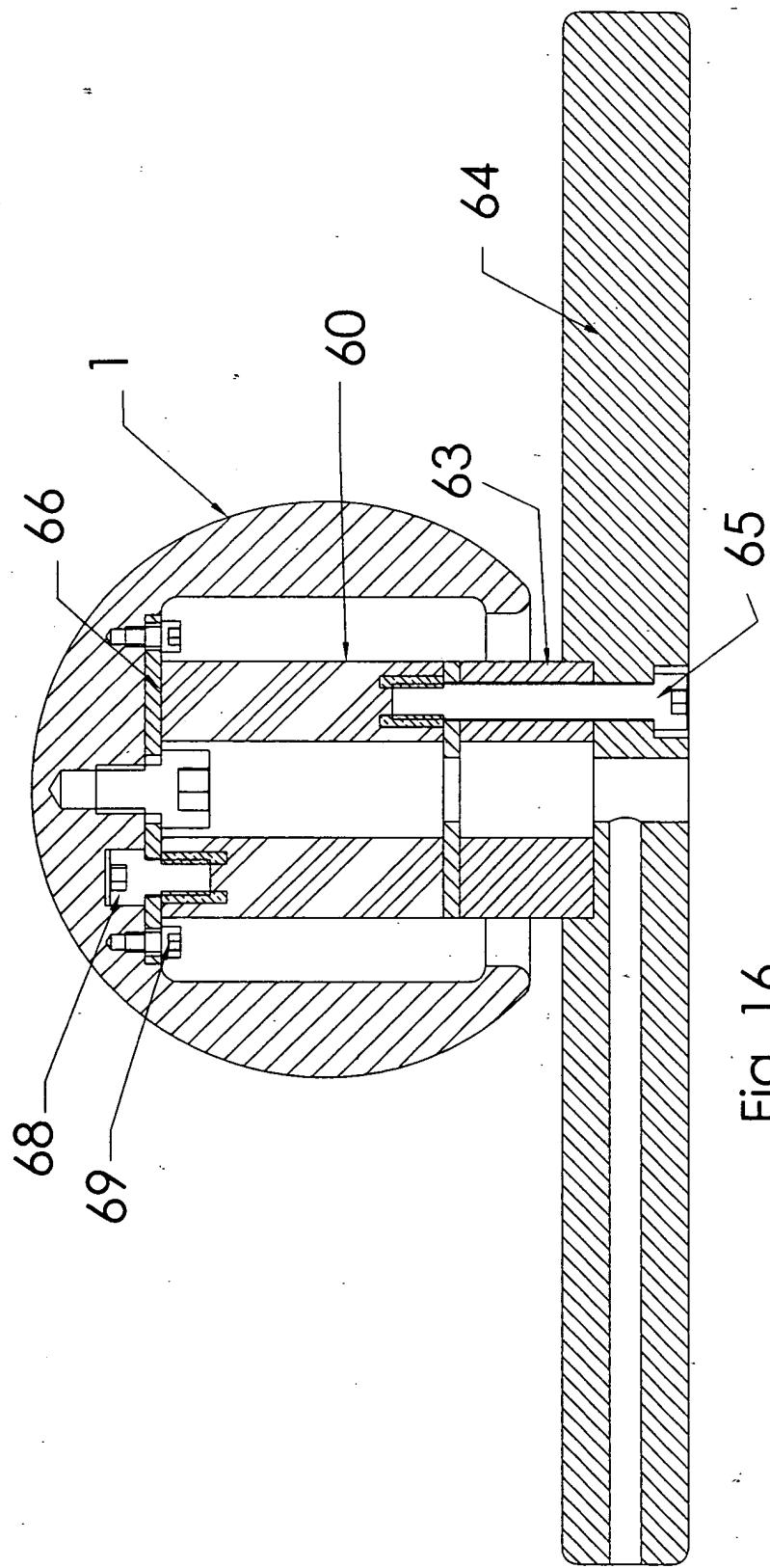


Fig. 16

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CIRCUIT DIAGRAM FOR RUBBER PLUG

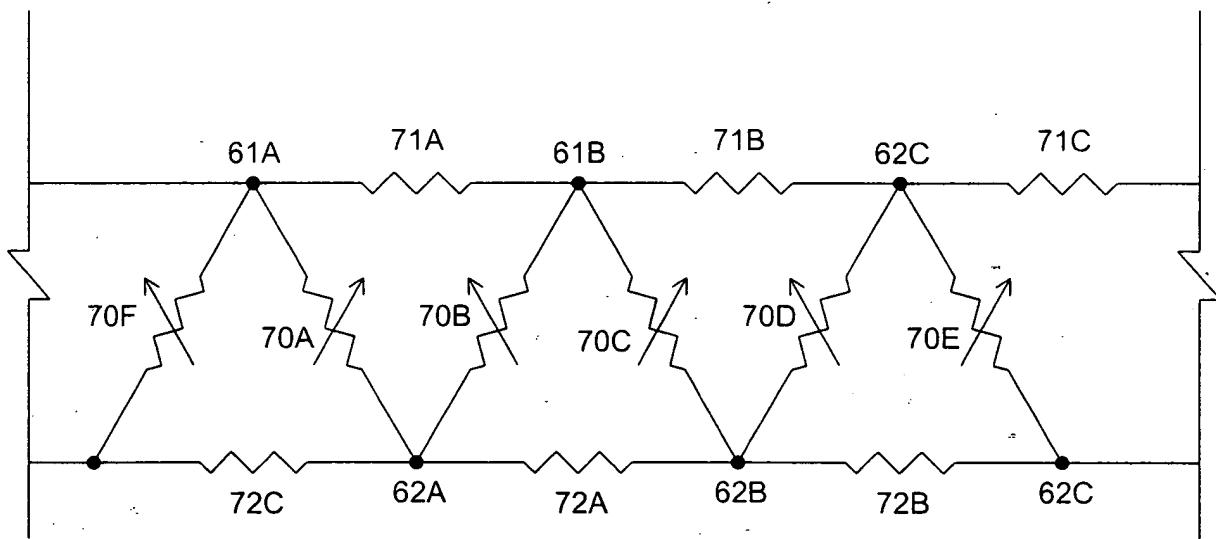


Fig. 17

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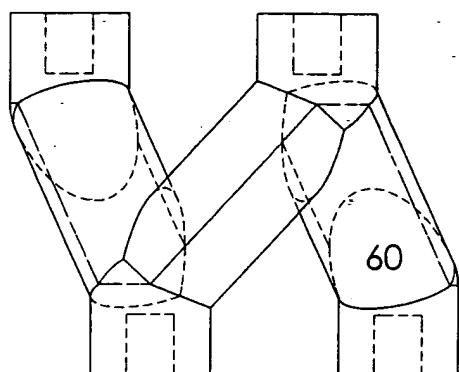


Fig. 18A

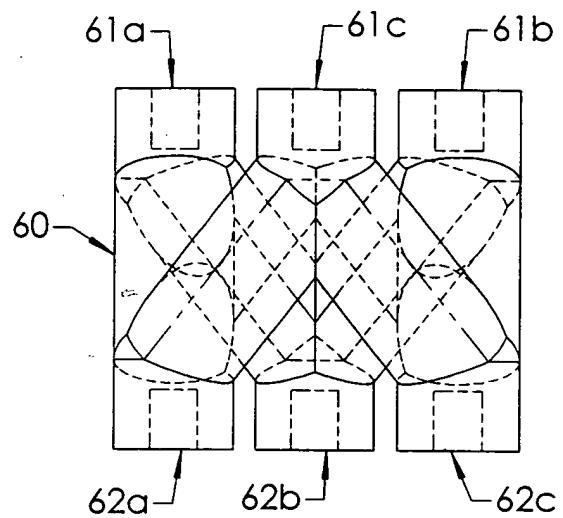


Fig. 18B

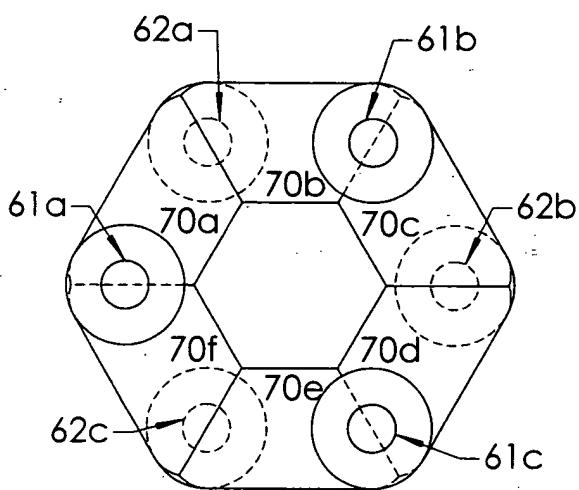


Fig. 18C

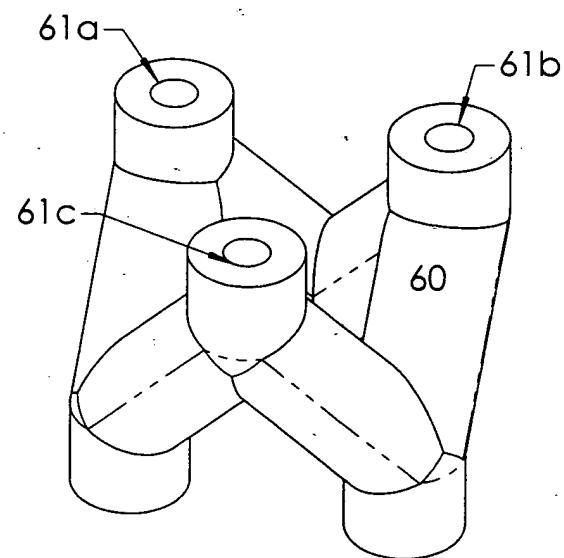


Fig. 18D

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CIRCUIT DIAGRAM FOR "SPIDER"

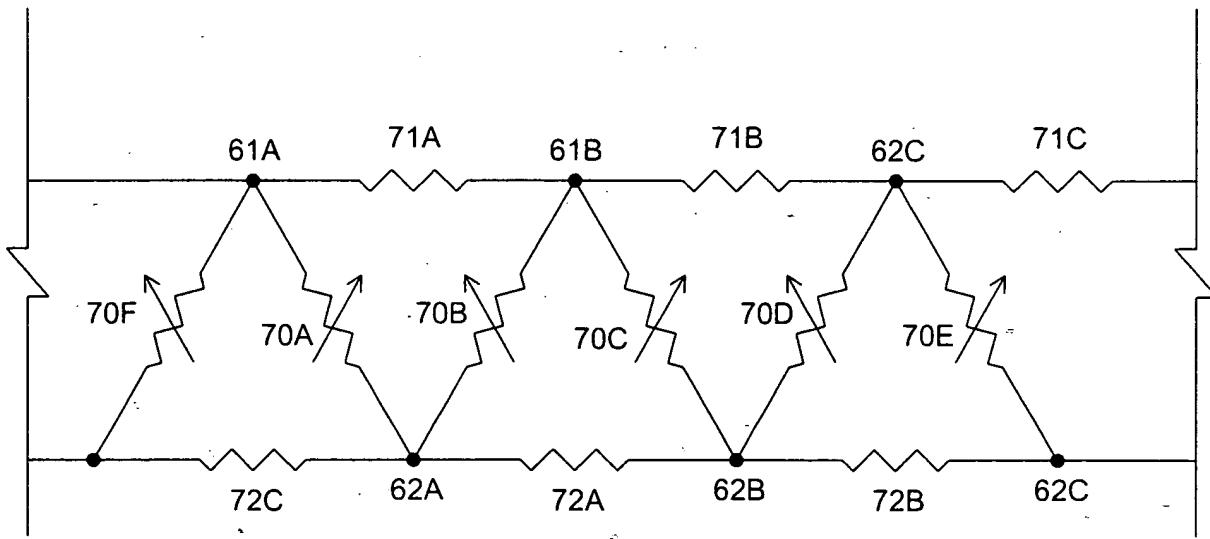


Fig. 18E

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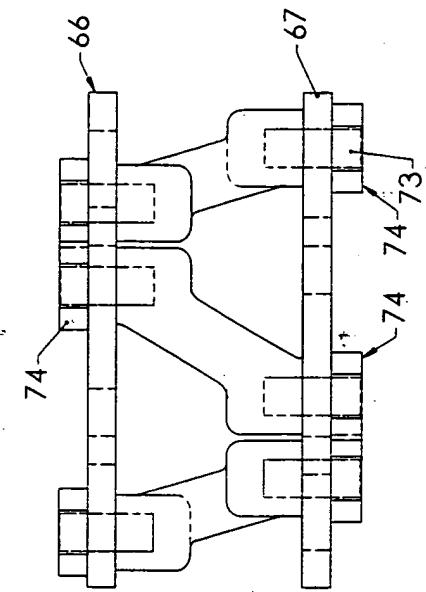


Fig. 19A

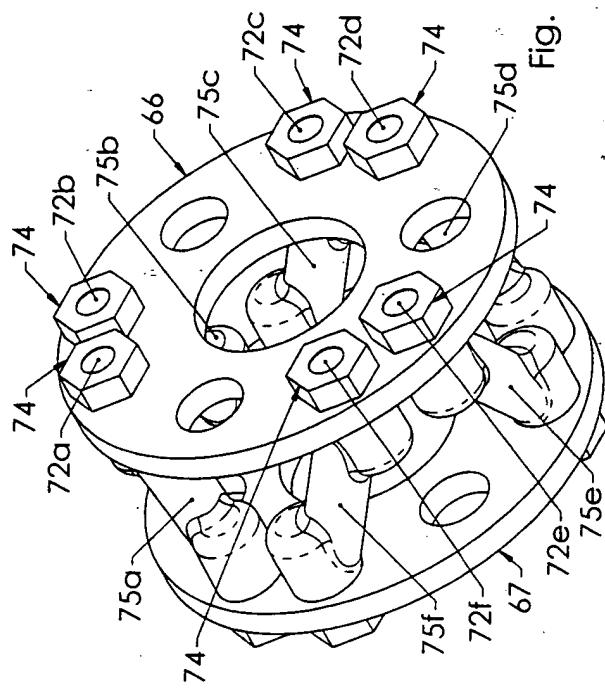


Fig. 19B

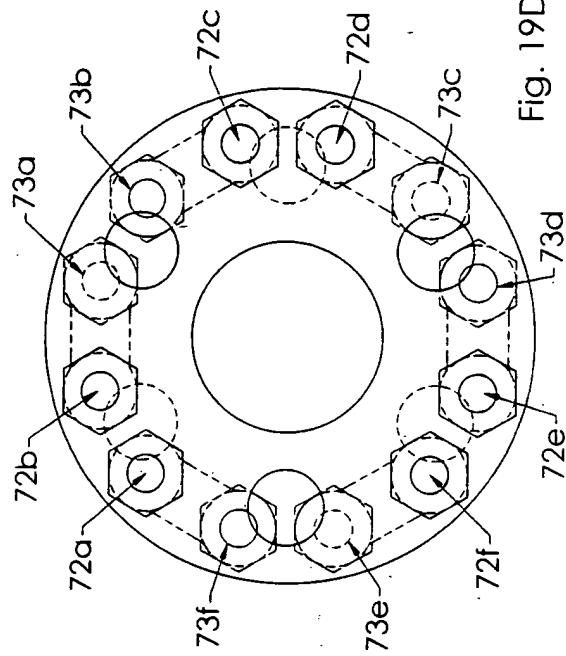


Fig. 19C

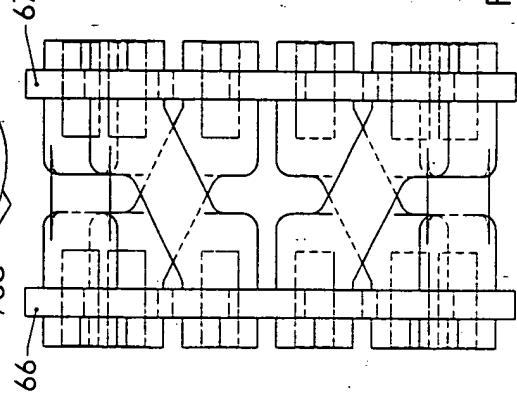


Fig. 19D

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CIRCUIT DIAGRAM FOR INDEPENDANT CIRCUIT ELEMENTS

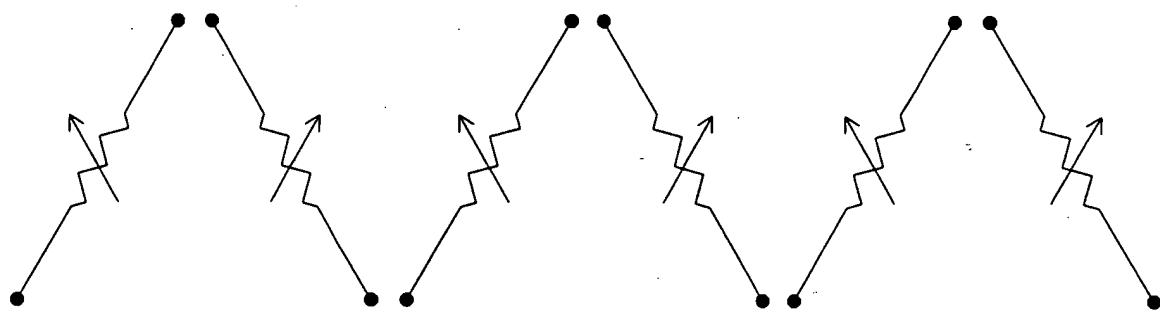


Fig. 19E

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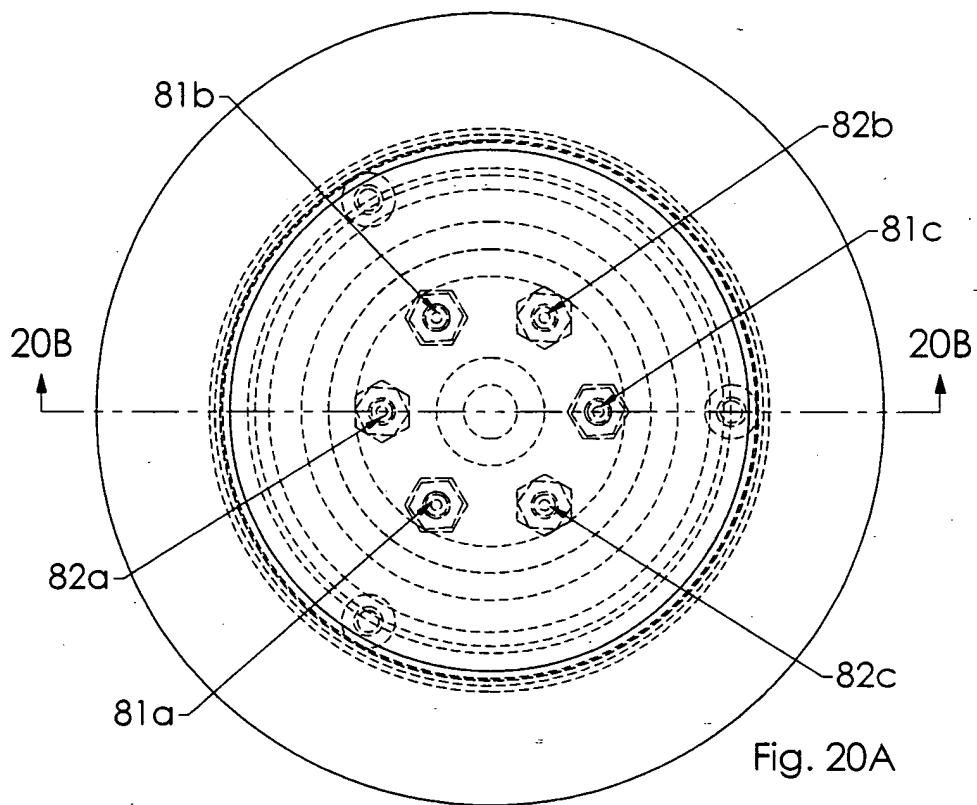


Fig. 20A

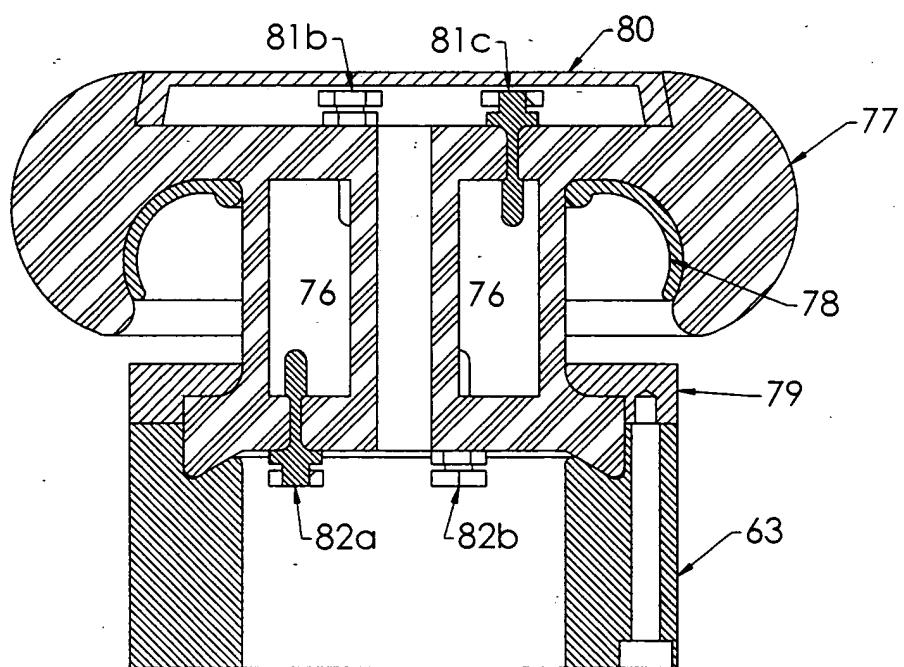


Fig. 20B

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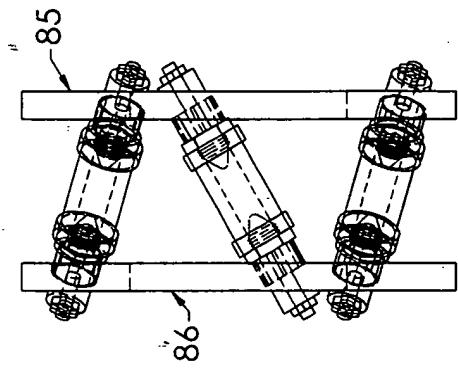


Fig. 21E

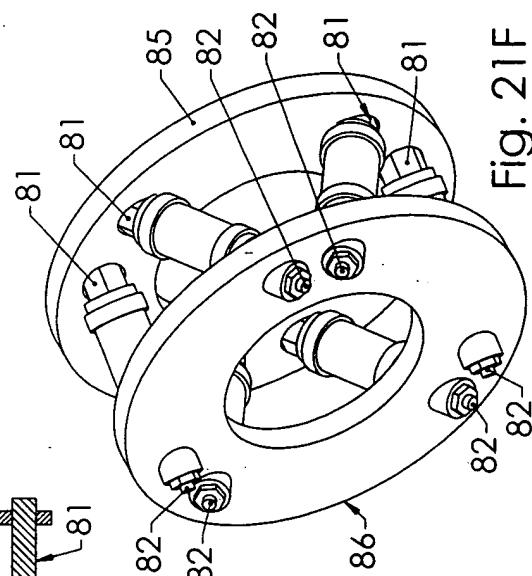


Fig. 21F

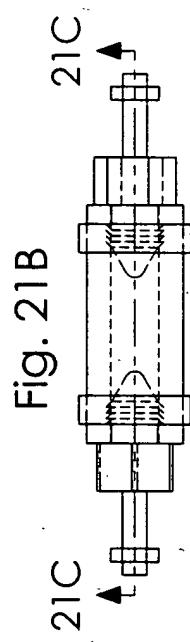


Fig. 21B

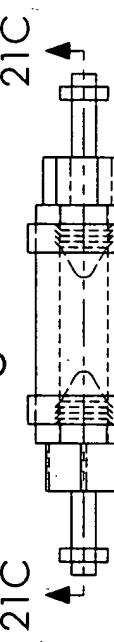


Fig. 21C

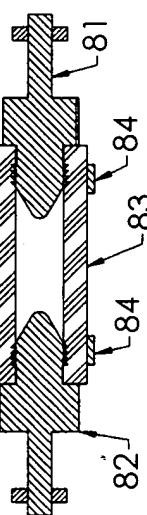


Fig. 21C

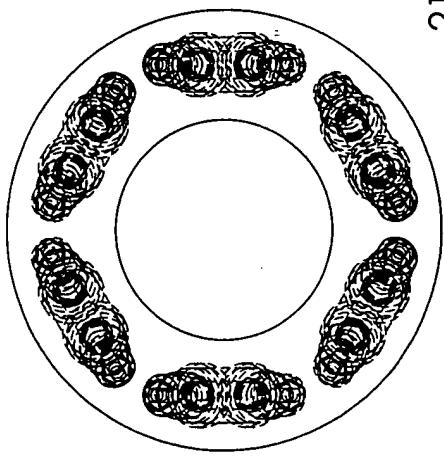


Fig. 21A

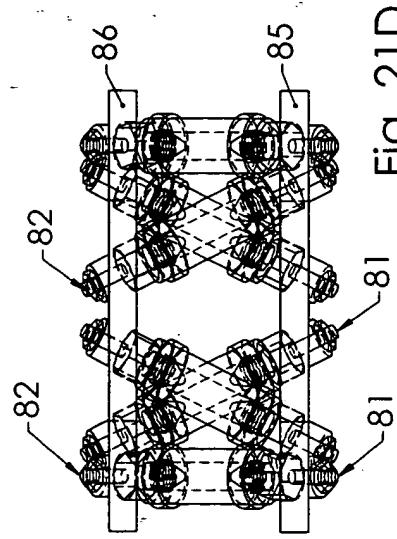


Fig. 21D

100 100 2 100 100 100

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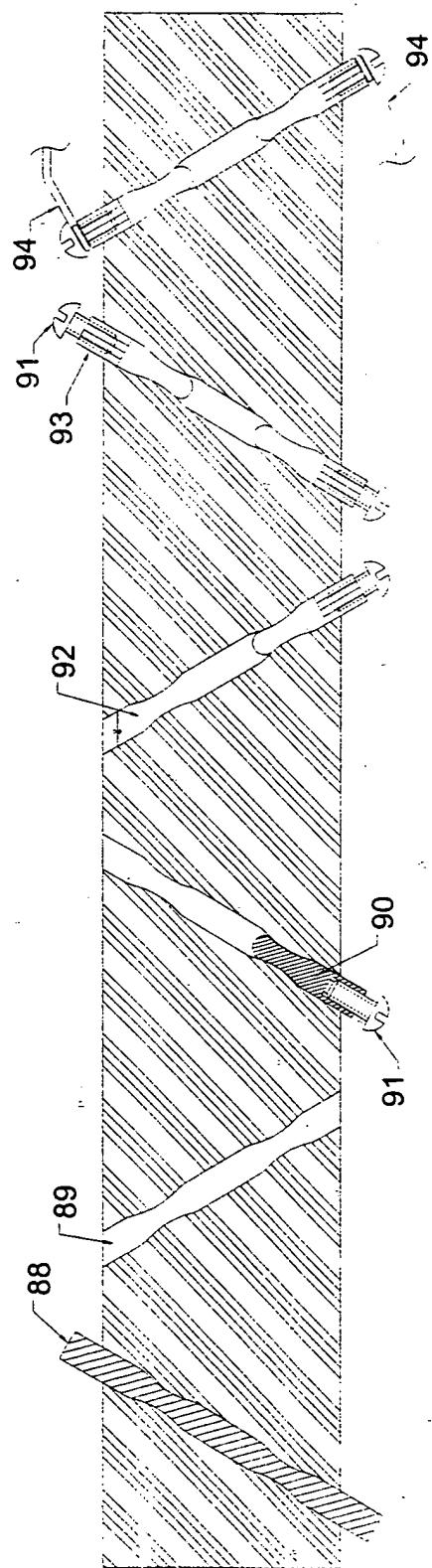


Fig. 22

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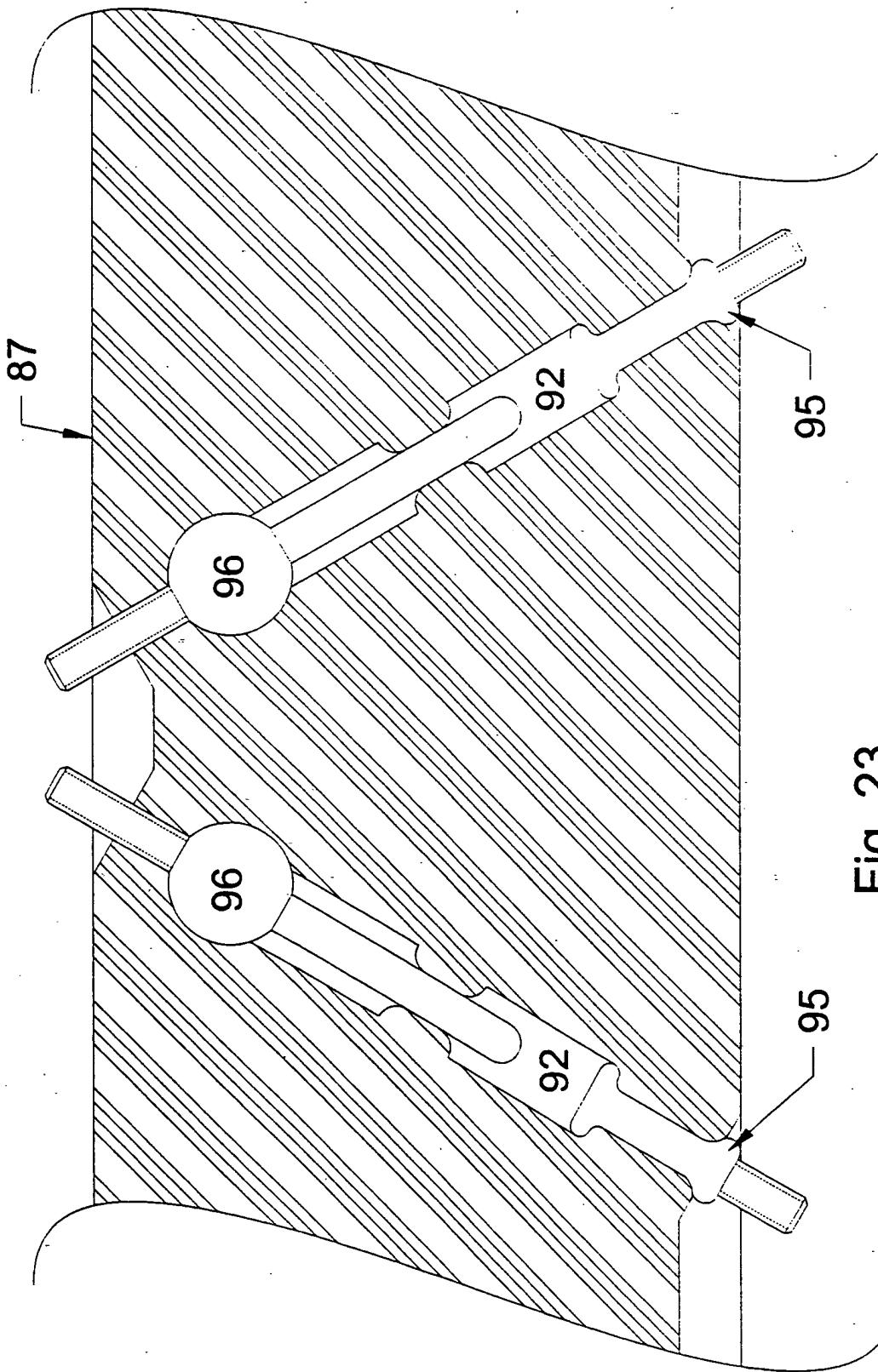


Fig. 23

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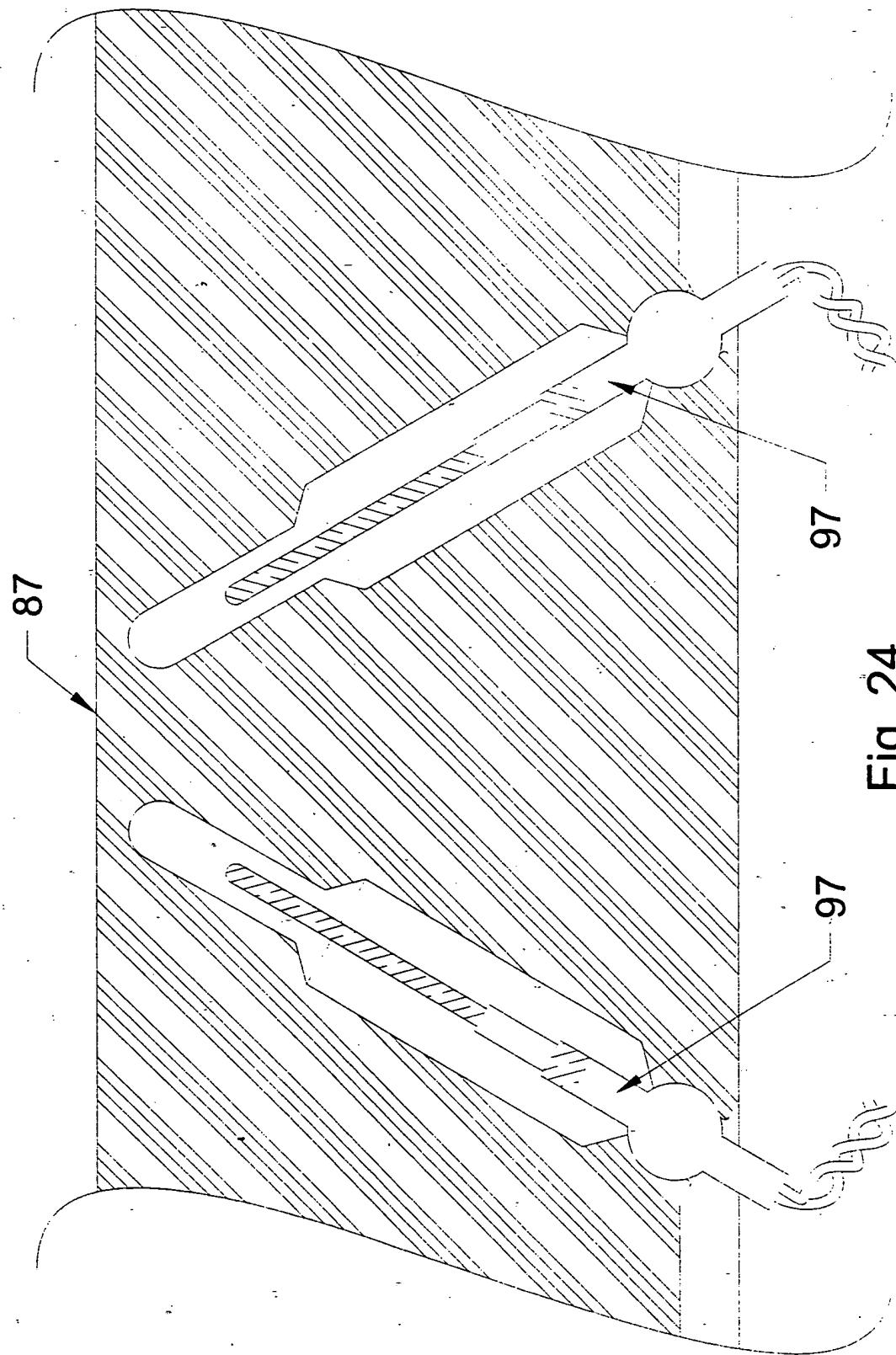


Fig. 24

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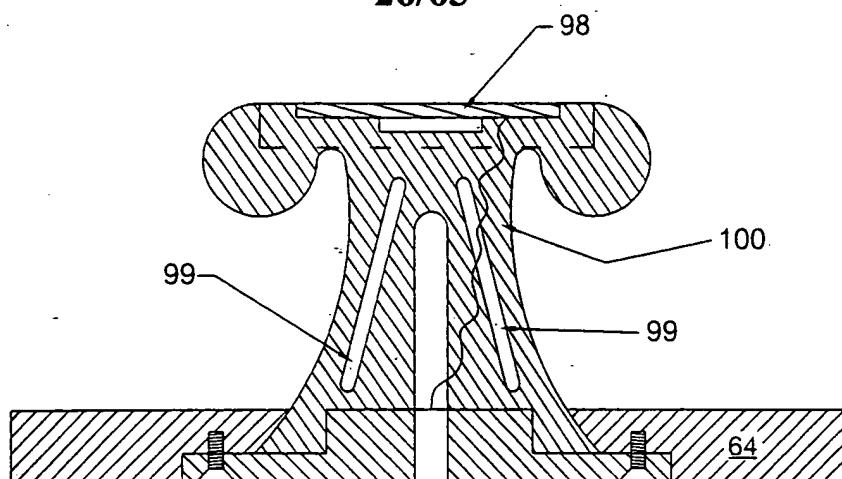


Fig. 25A

ELASTOMERIC GRIP, 520
MEMS FORCE SENSOR, 98

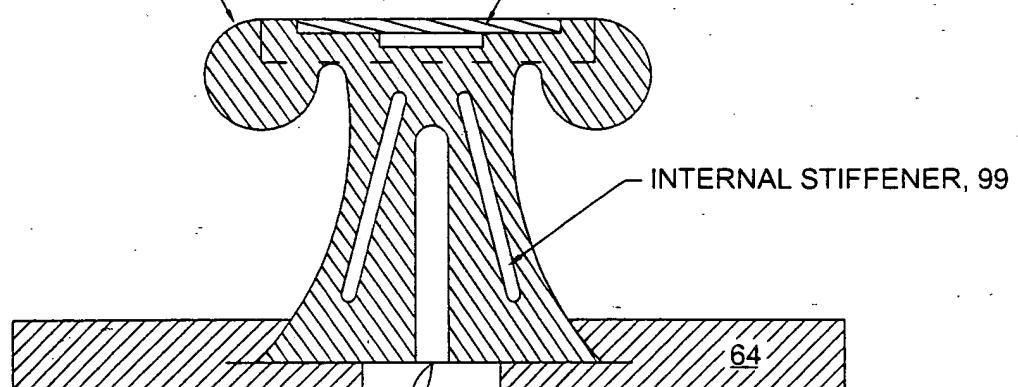


Fig. 25B

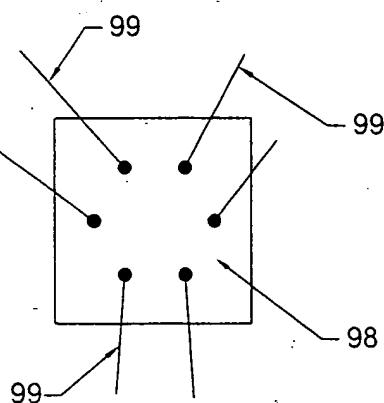


Fig. 25C

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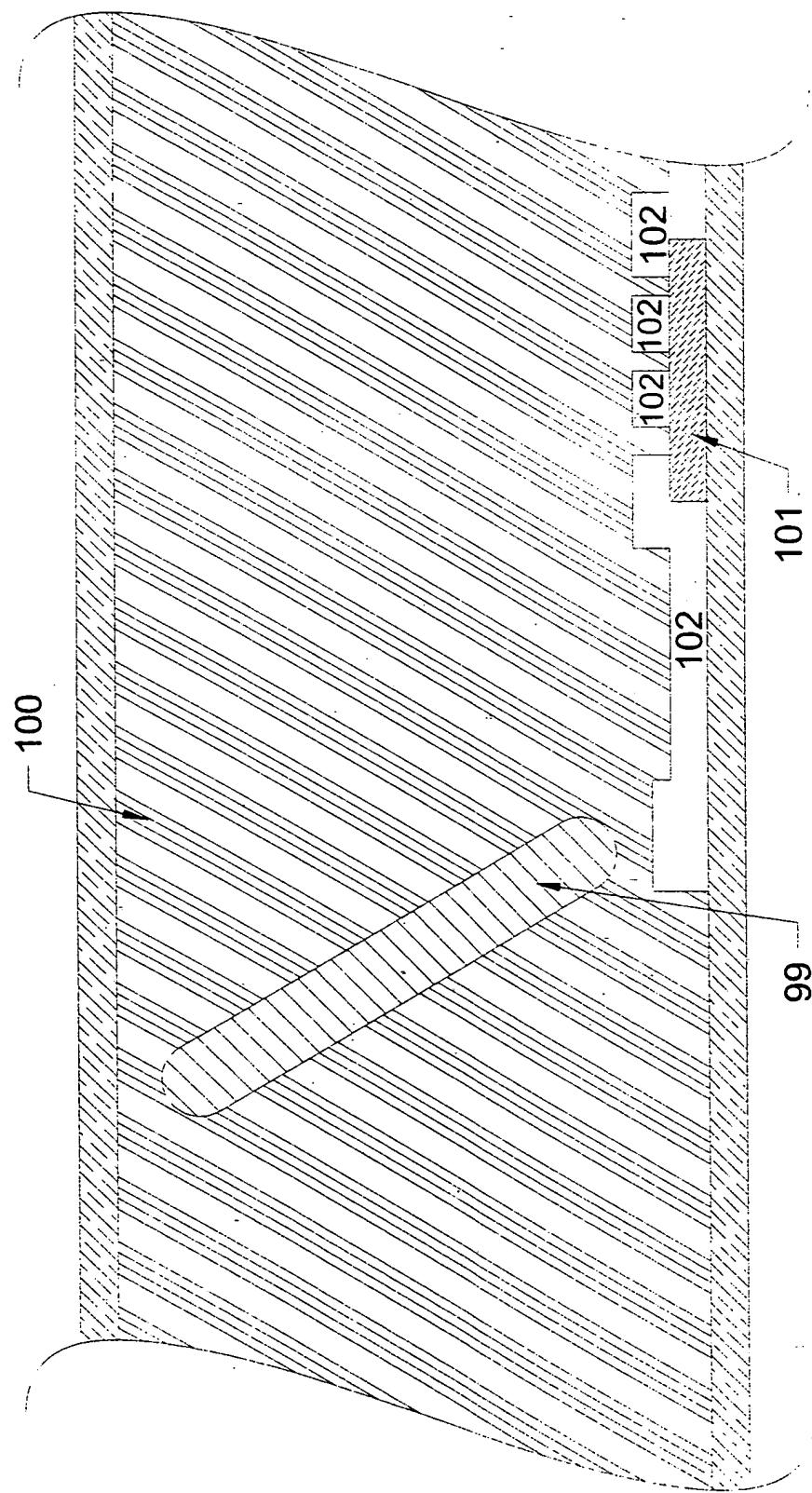


Fig. 26

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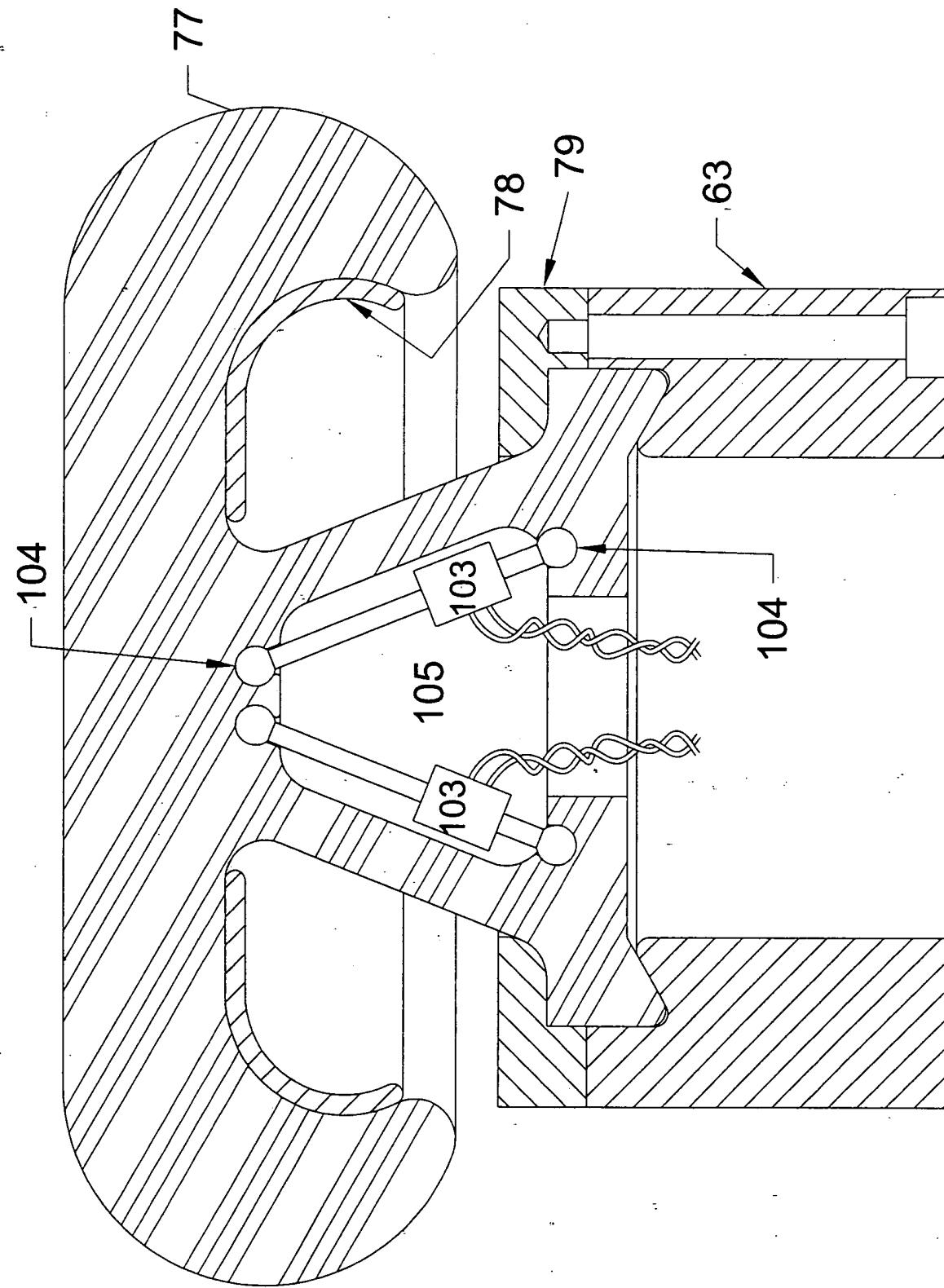


Fig. 27

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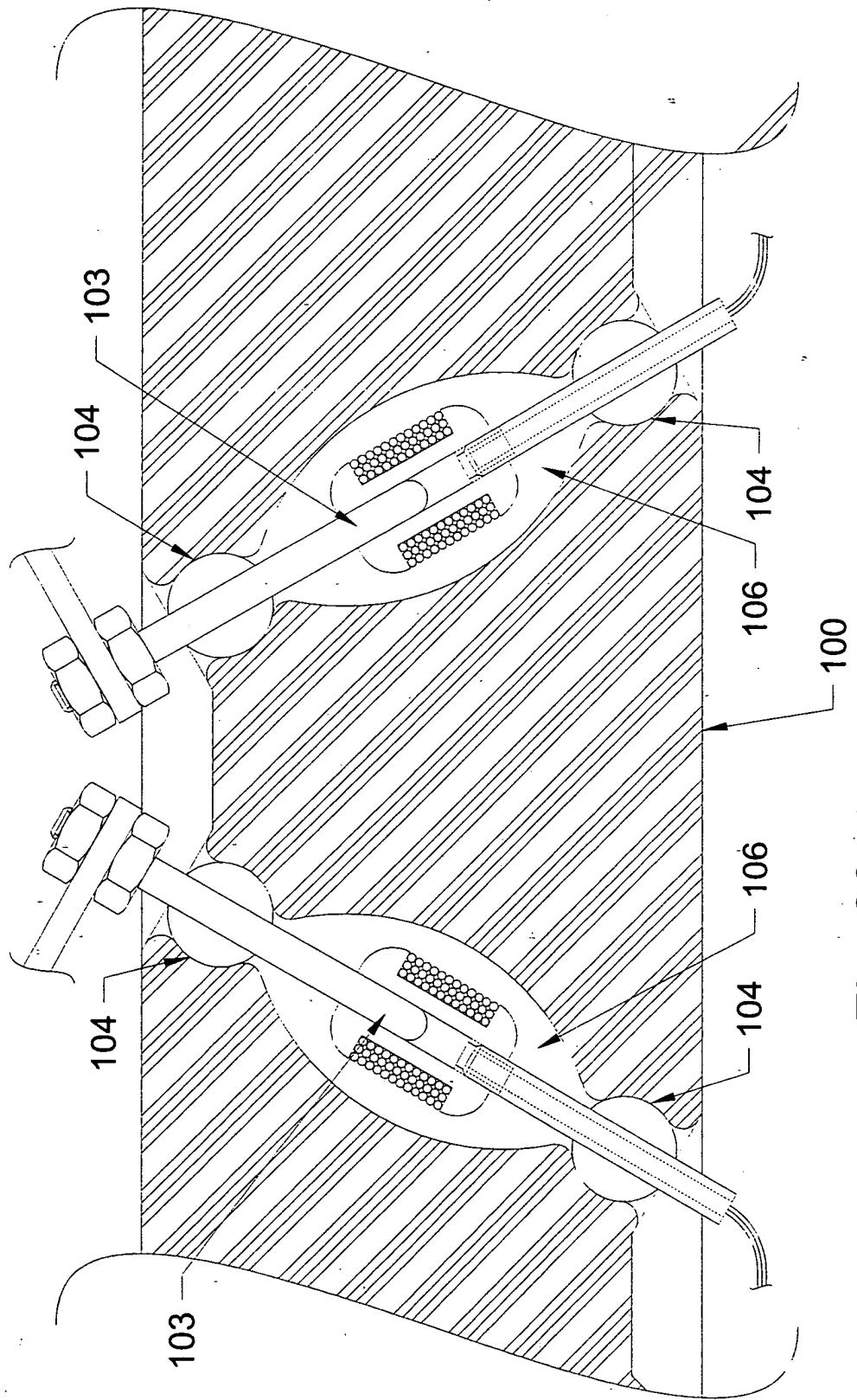


Fig. 28

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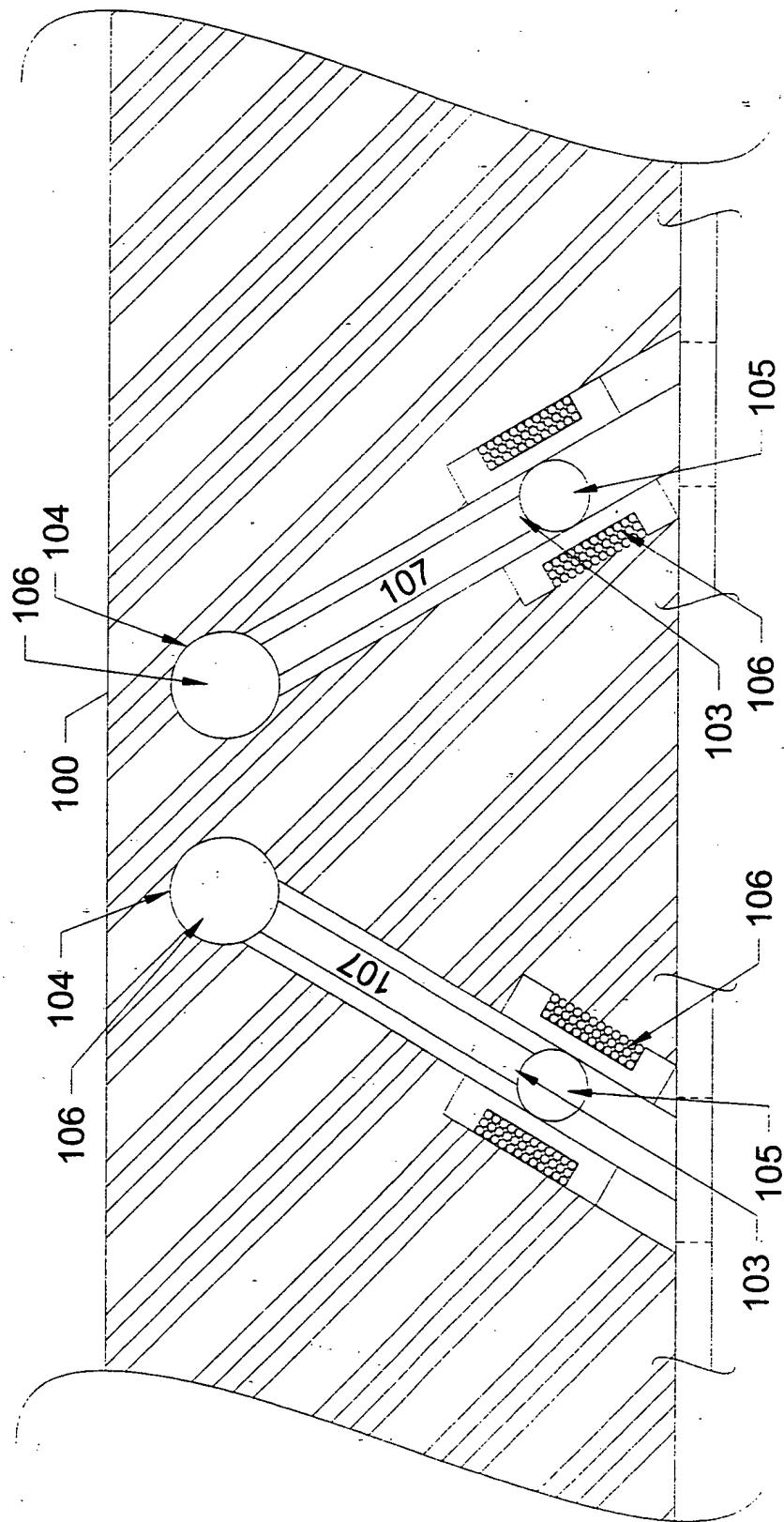


Fig. 29

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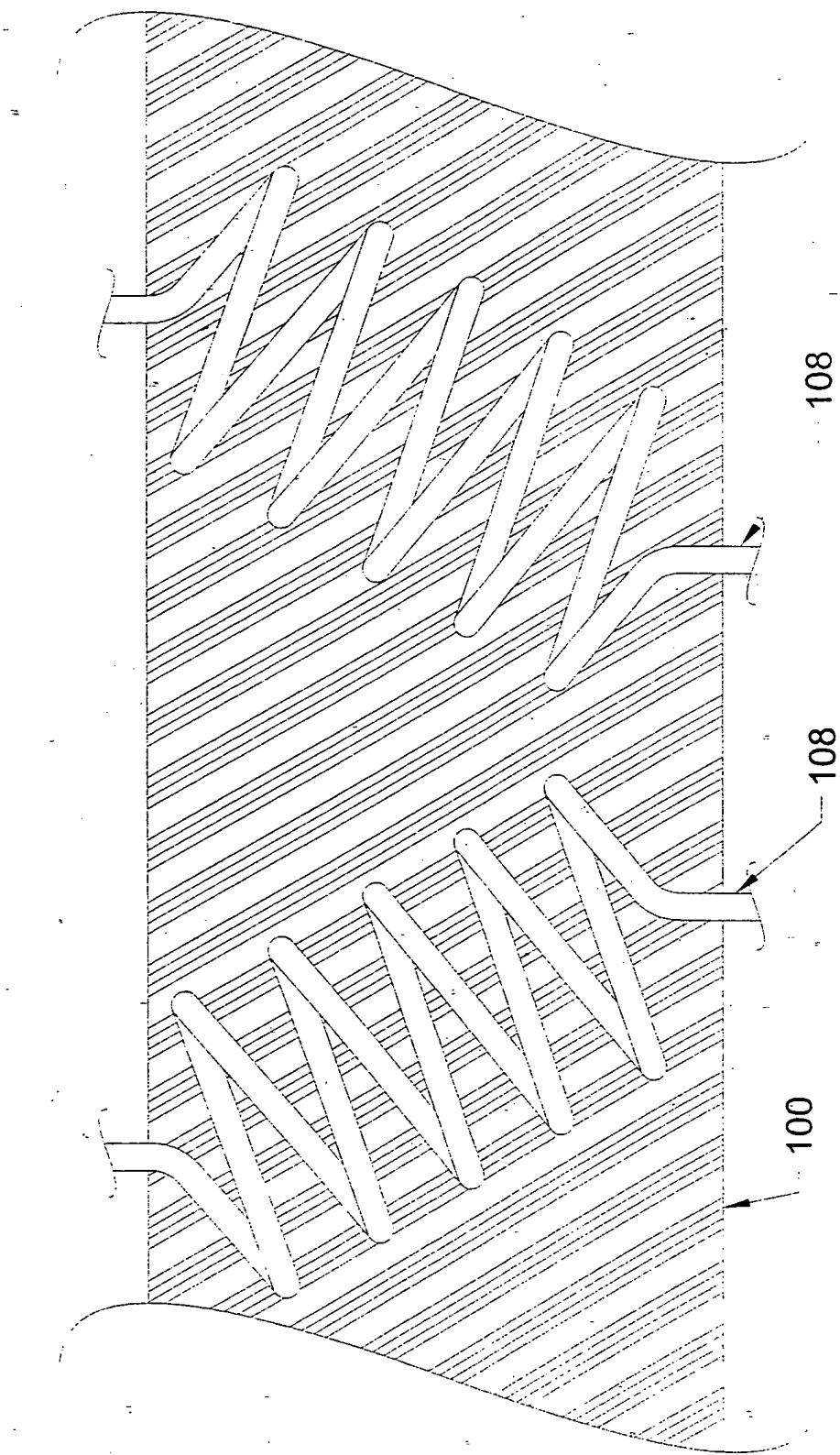


Fig. 30

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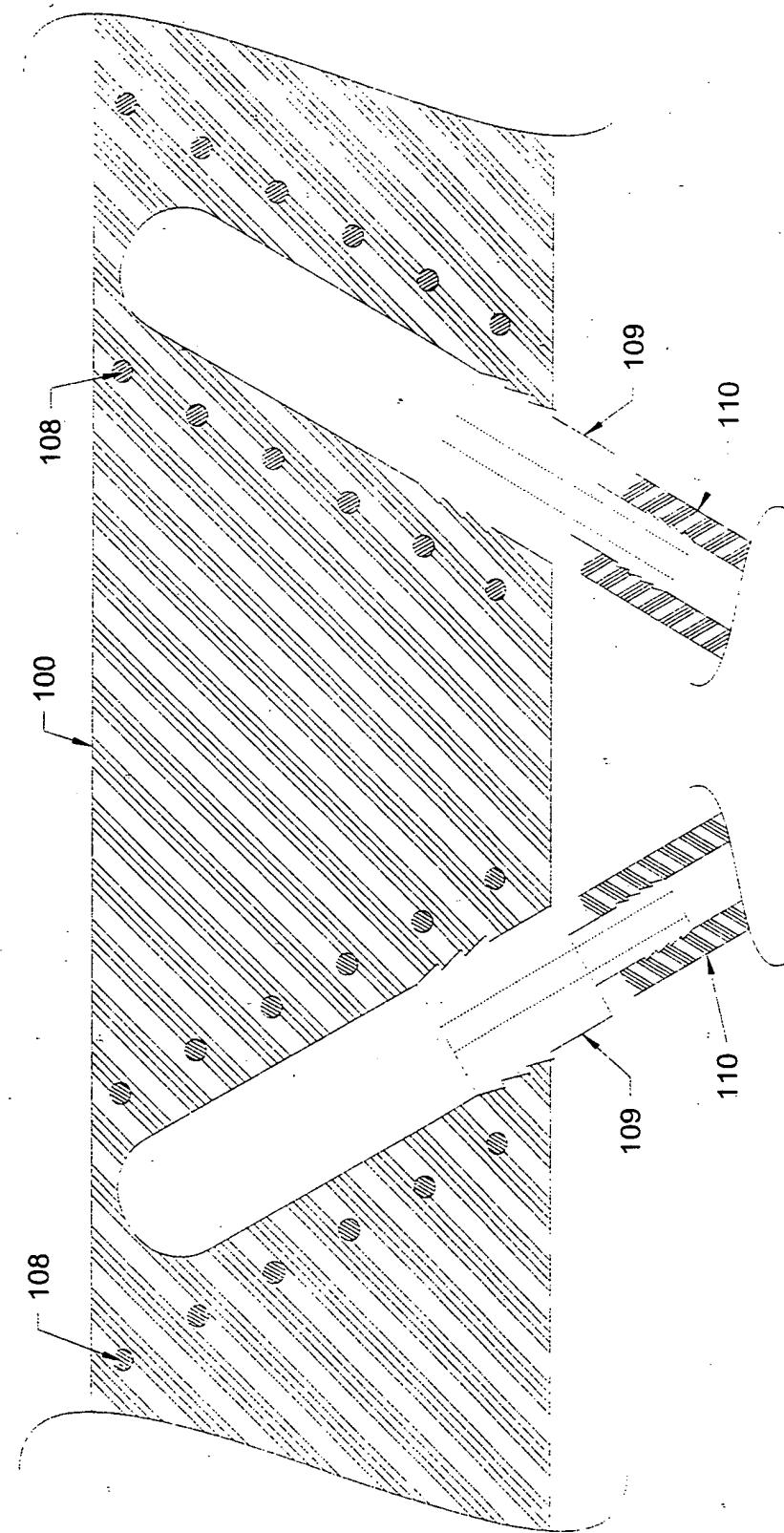


Fig. 31

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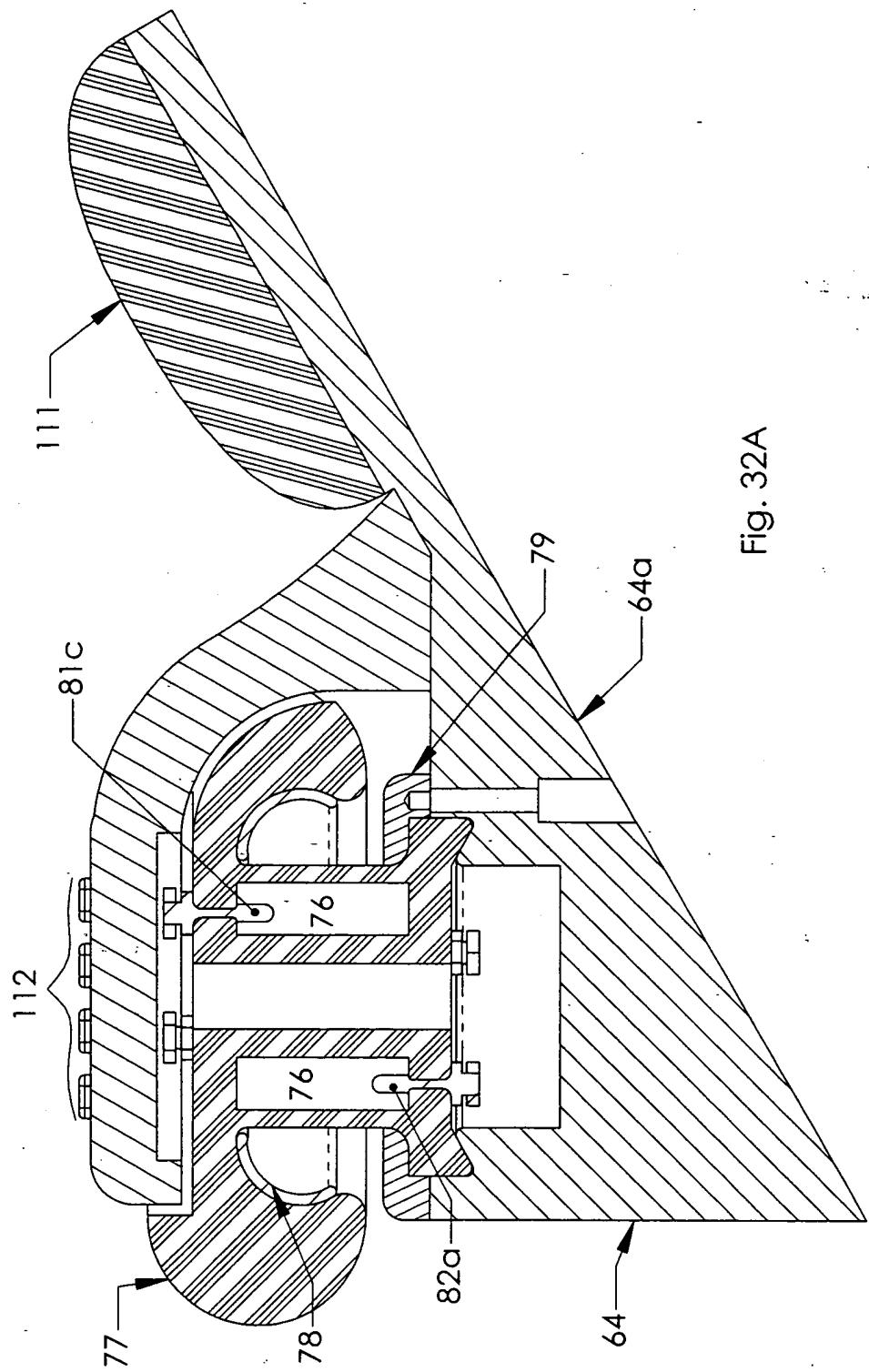


Fig. 32A

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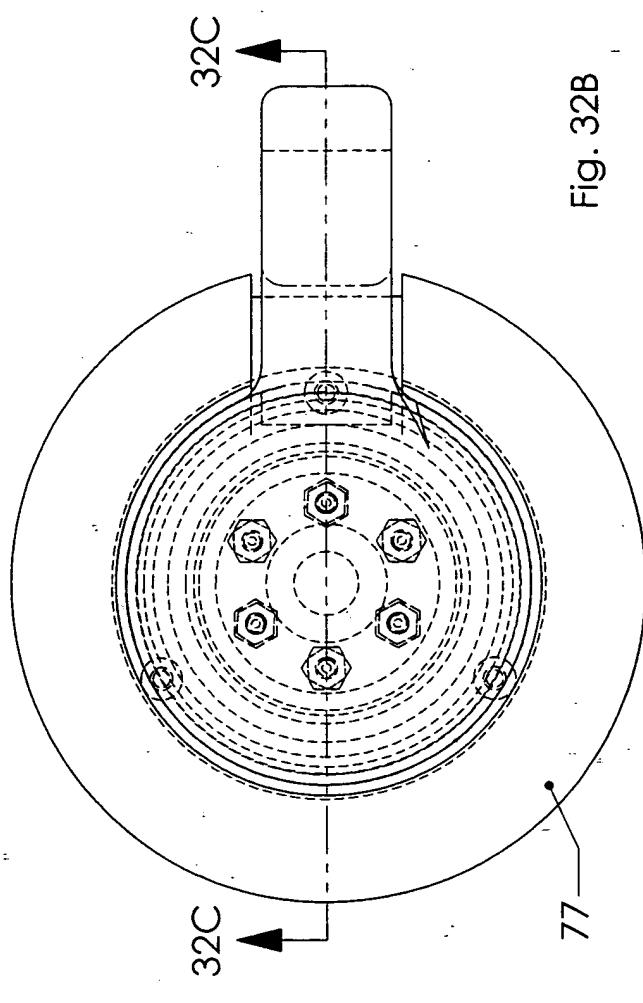


Fig. 32B

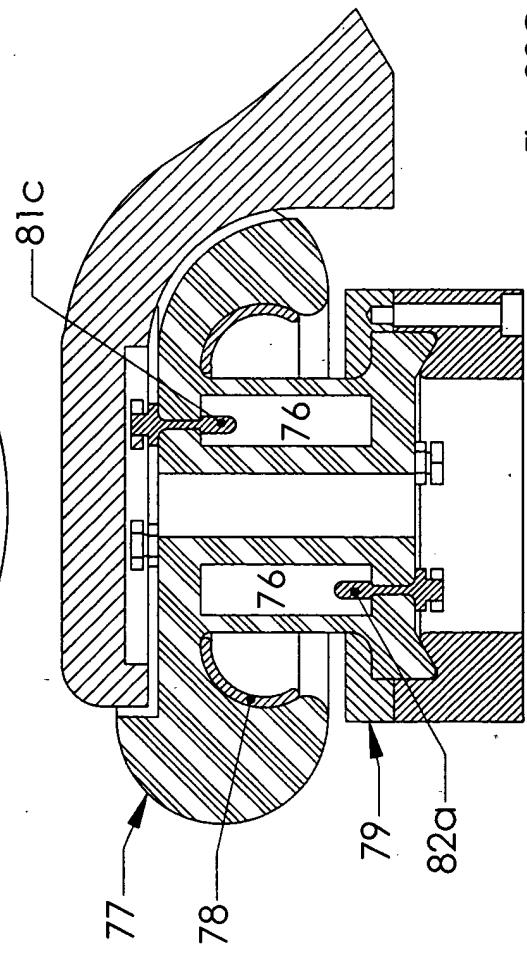


Fig. 32C

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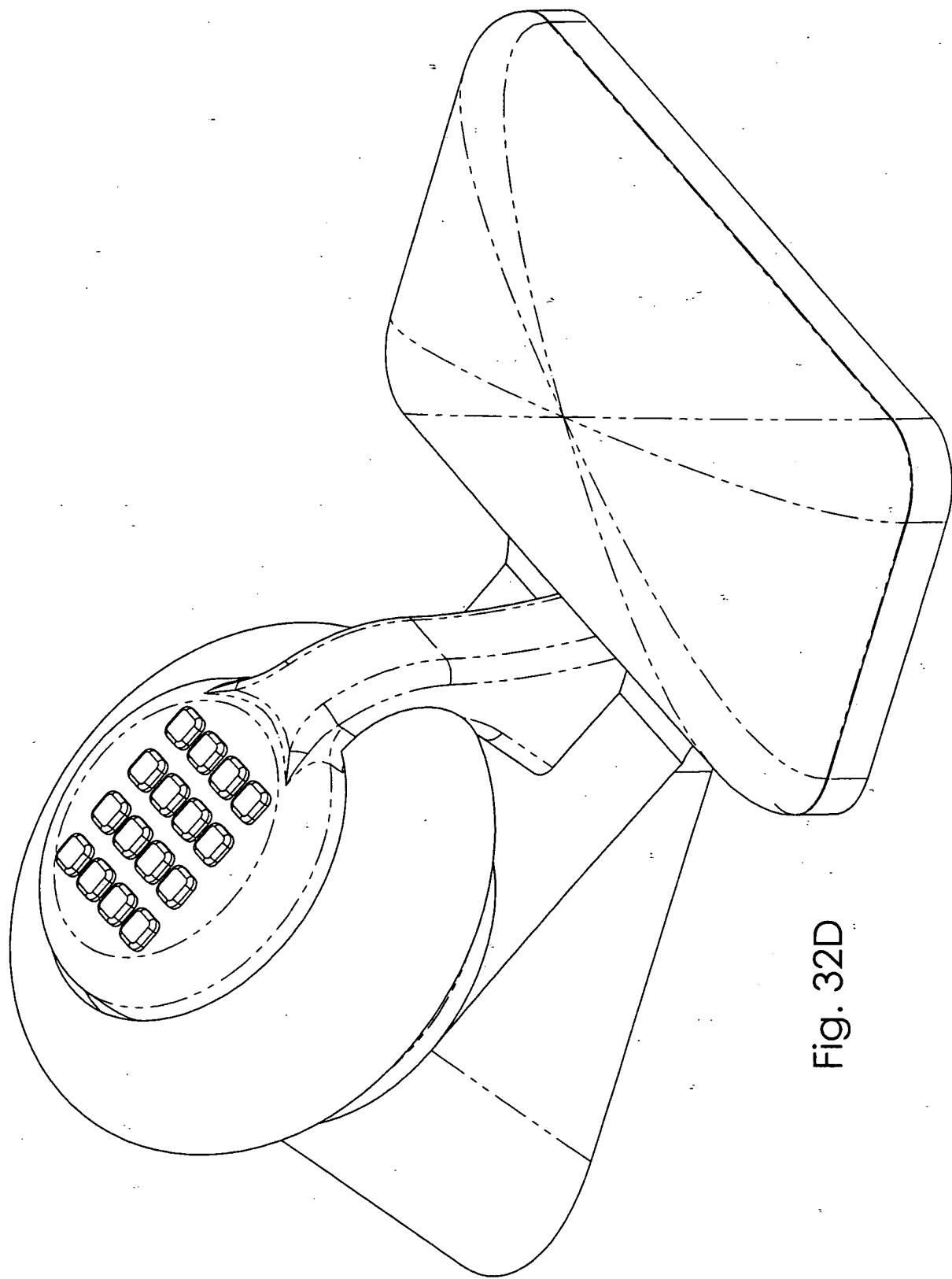


Fig. 32D

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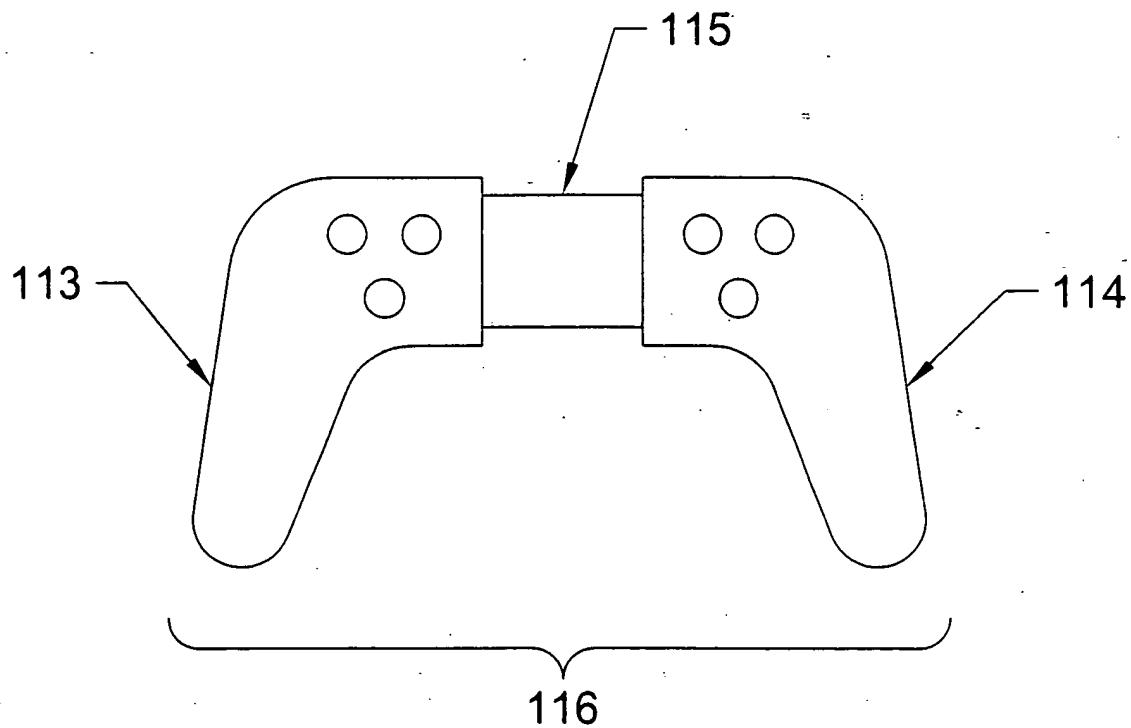


Fig. 33

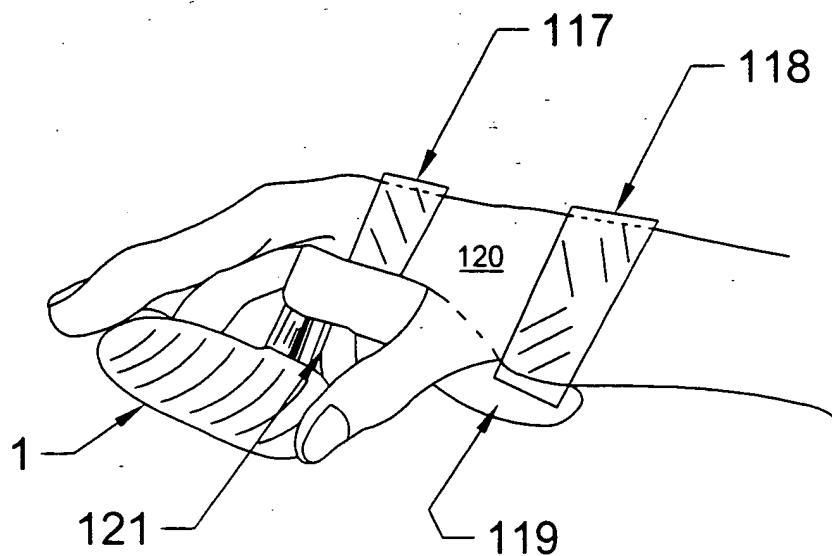


Fig. 34

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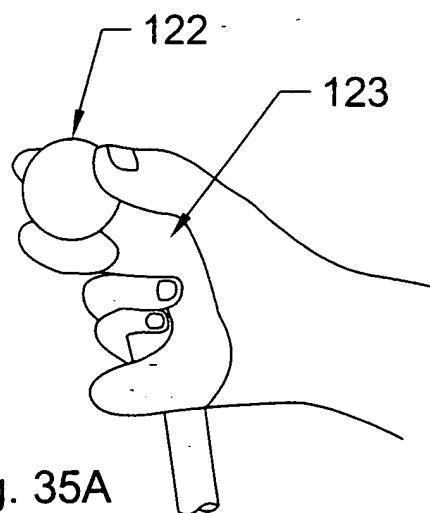


Fig. 35A

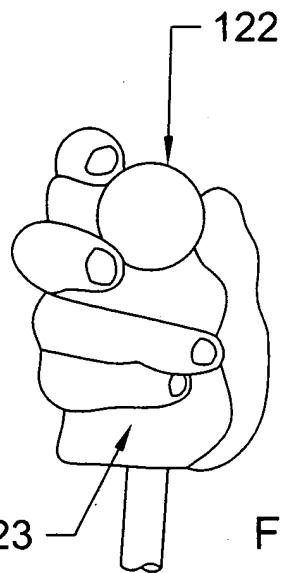


Fig. 35C

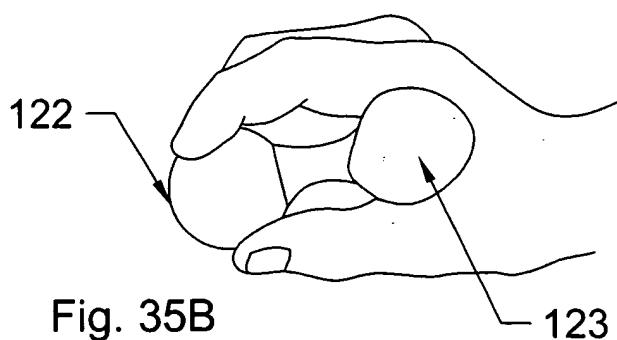


Fig. 35B

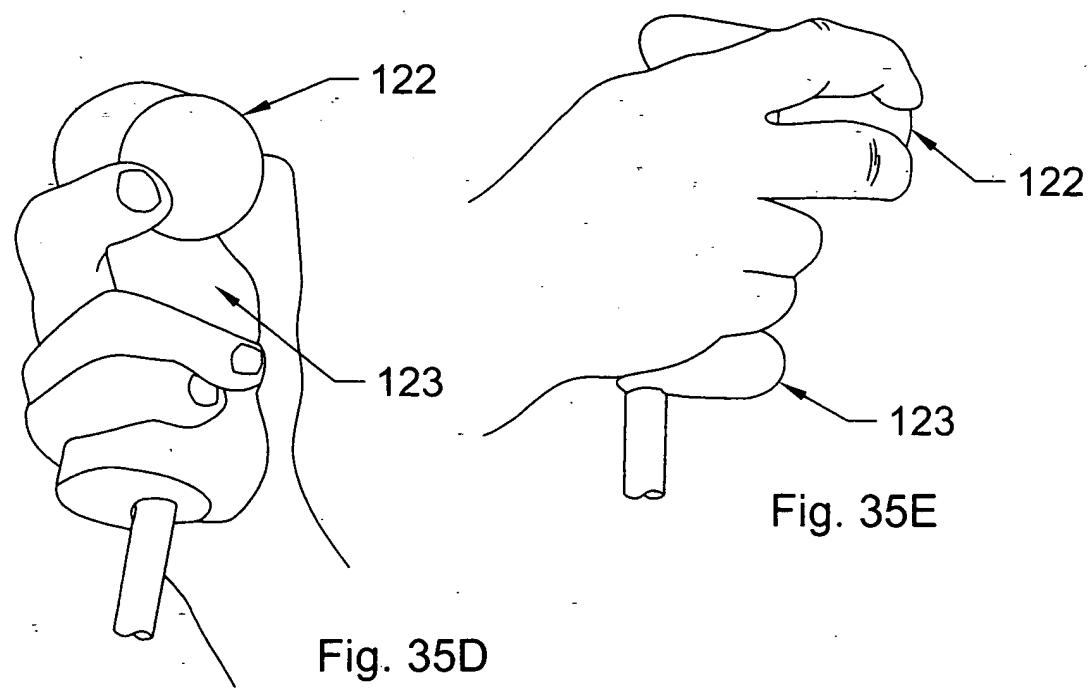


Fig. 35D

Fig. 35E

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35F 35G 35H

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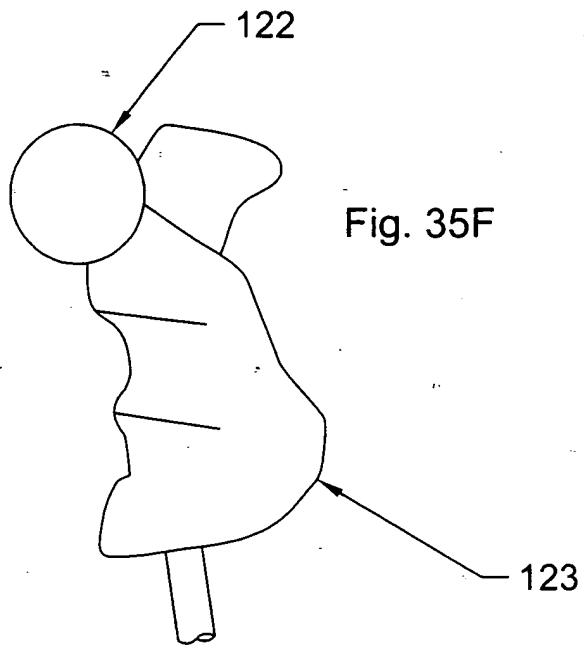


Fig. 35F

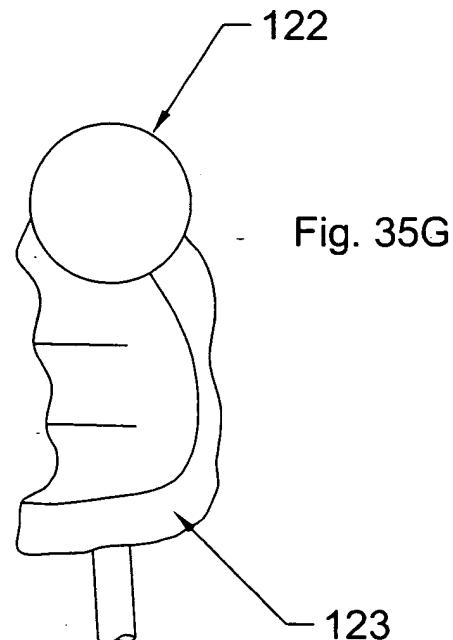


Fig. 35G

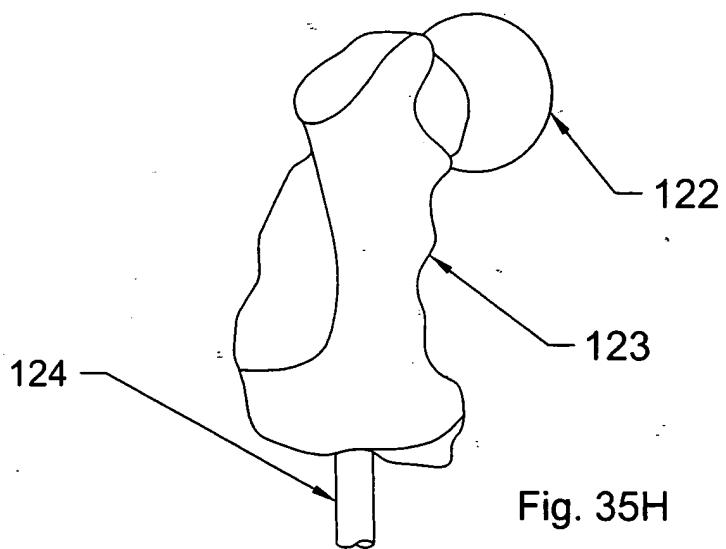


Fig. 35H

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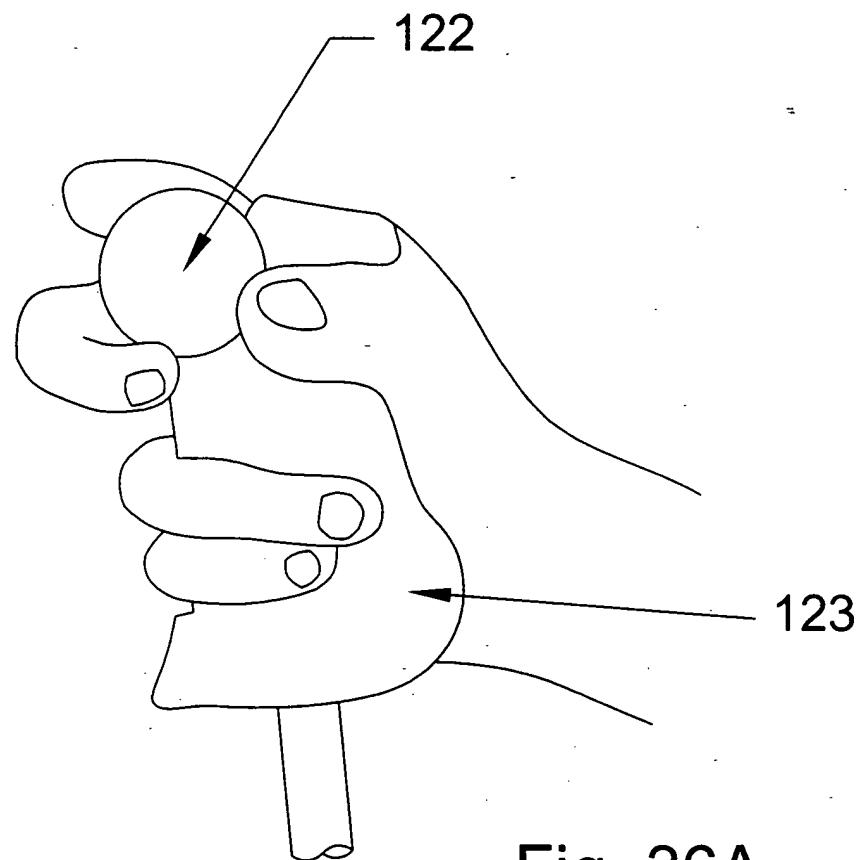


Fig. 36A

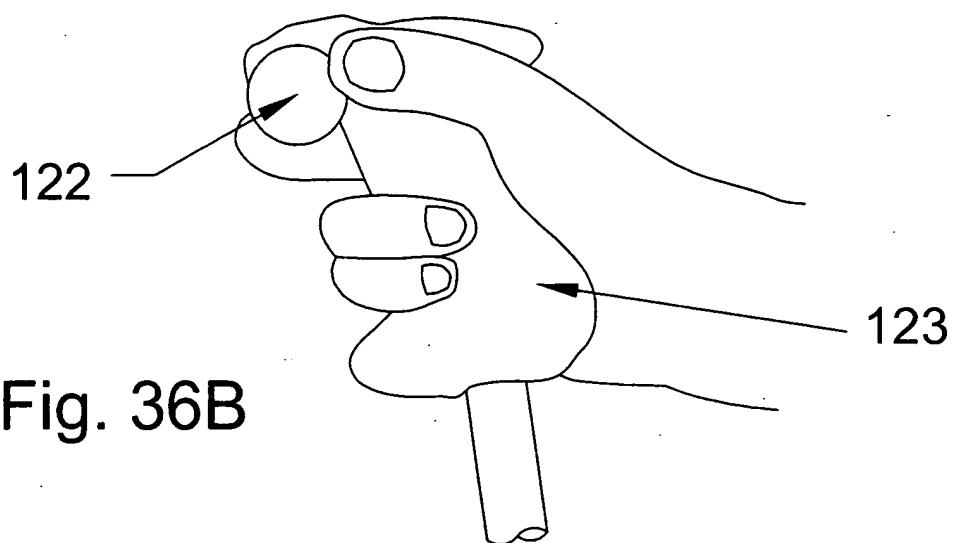
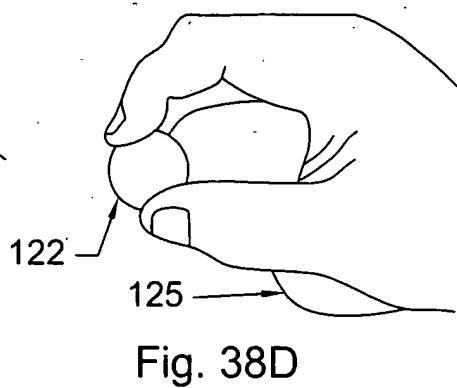
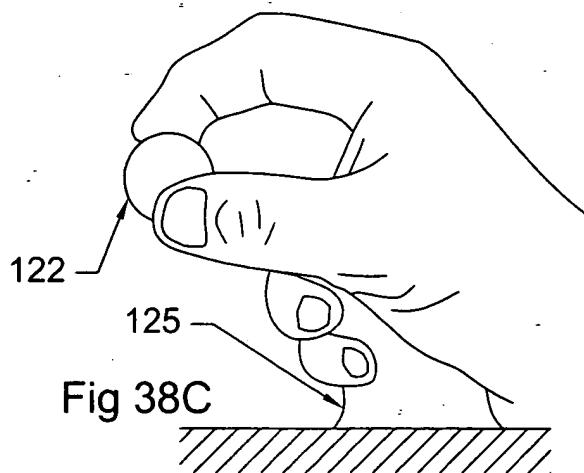
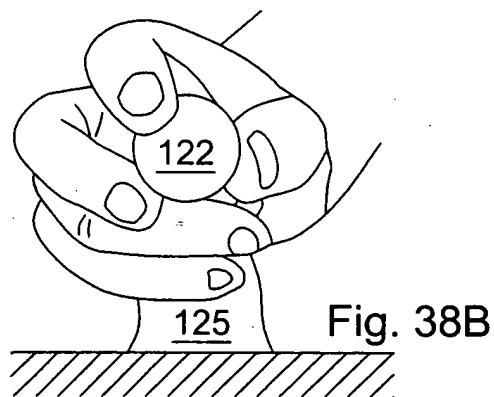
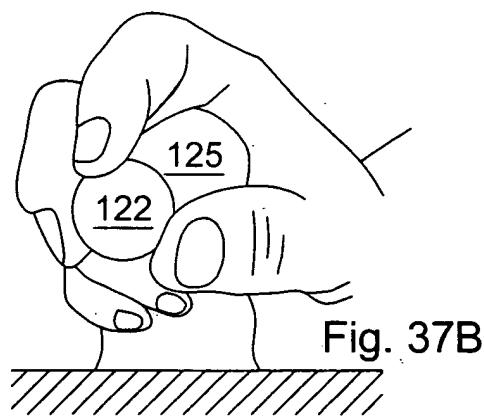
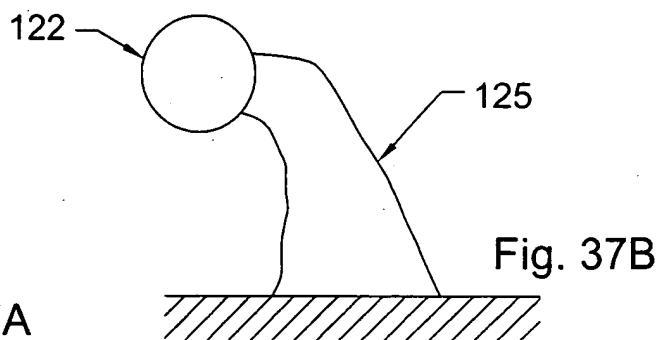
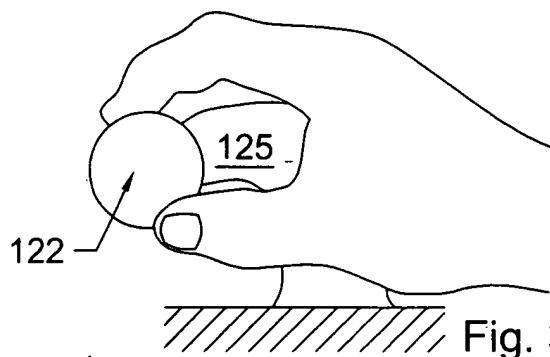


Fig. 36B

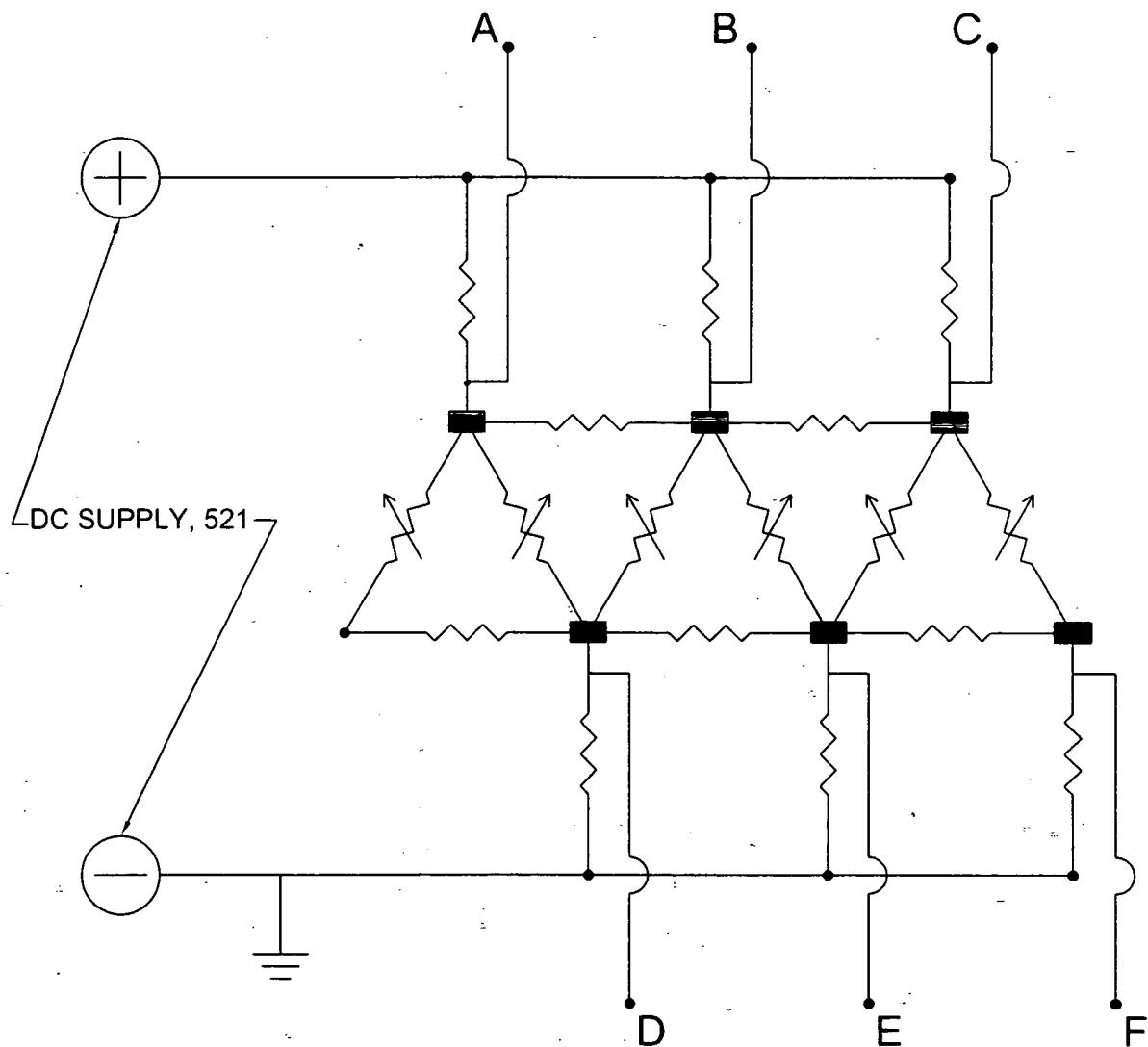
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A, B, C, D, E, F, GND ARE CONNECTED TO A/D
CONVERTER CONNECTED TO COMPUTER

Fig. 39

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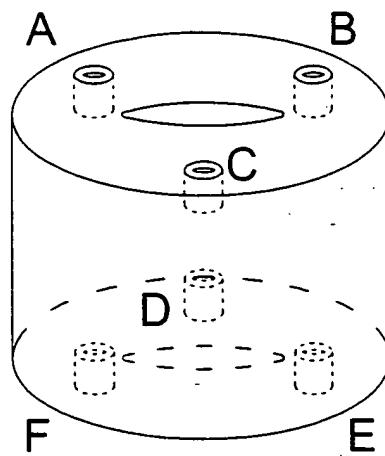


Fig. 40A
ELASTOMERIC SENSING ELEMENT

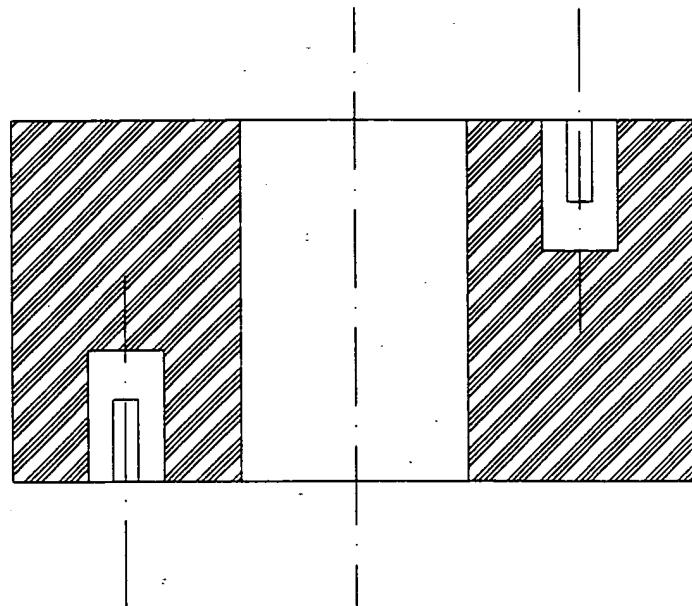


Fig. 40B

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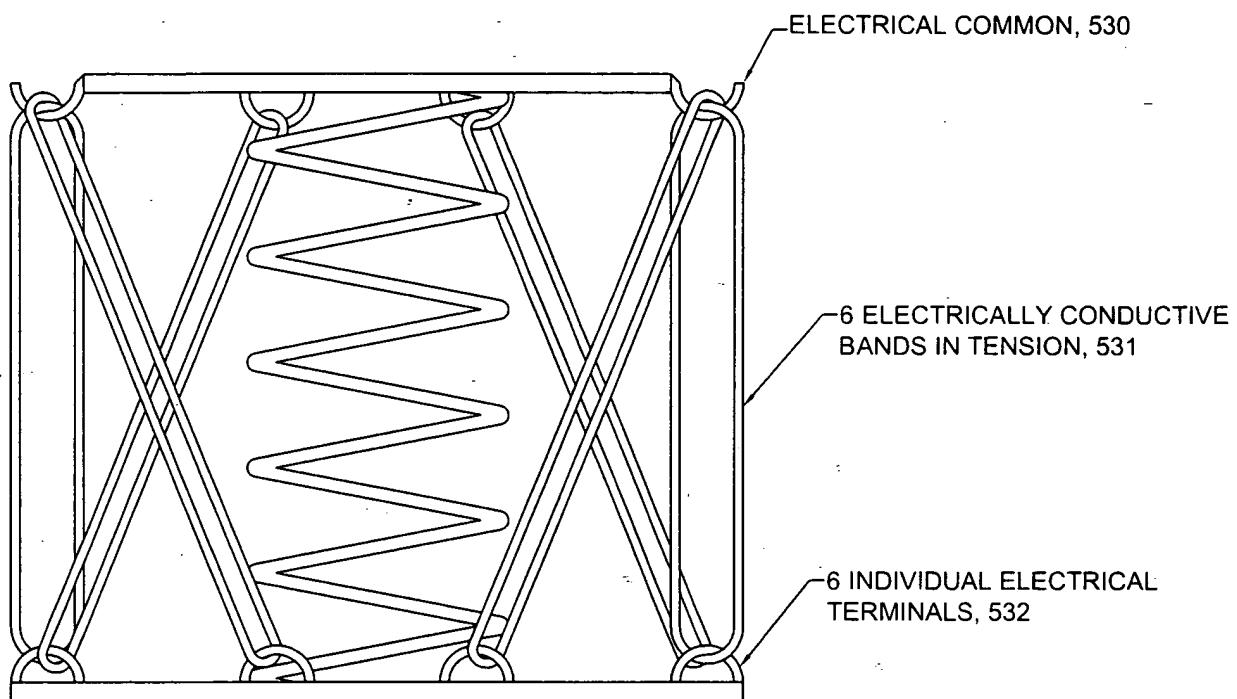


Fig. 41

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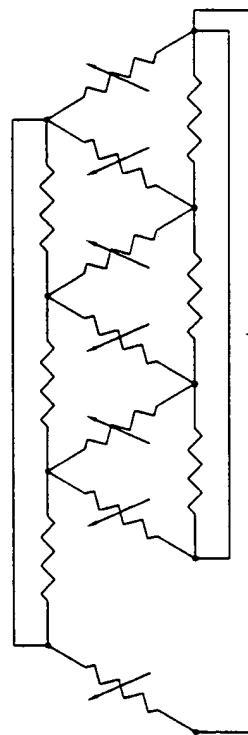


Fig. 43

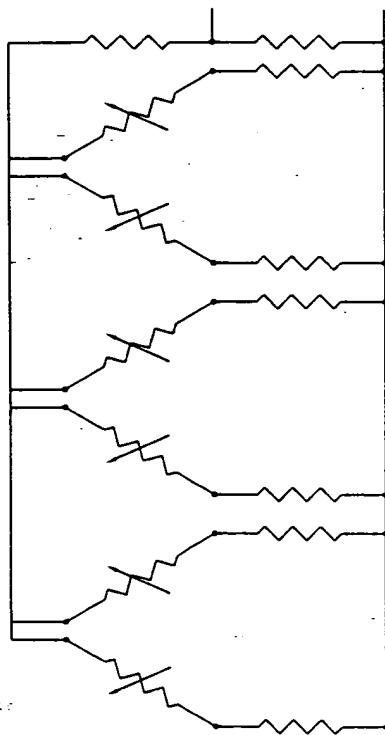


Fig. 42

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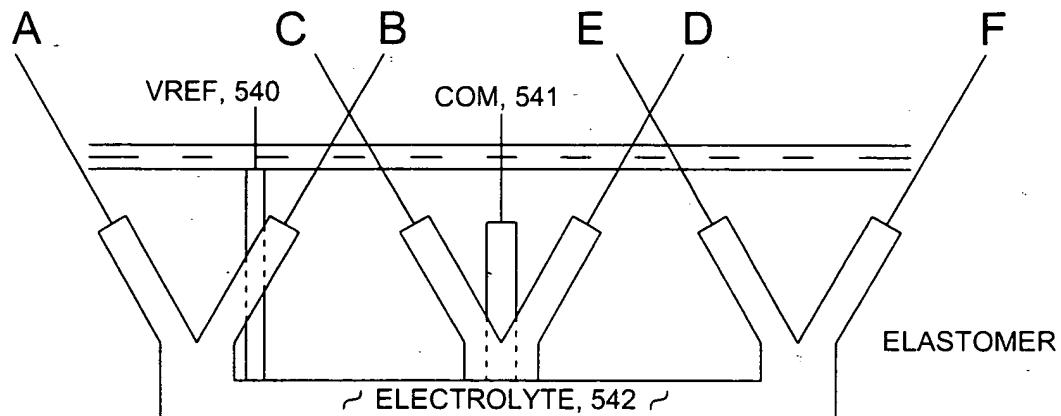


Fig. 44

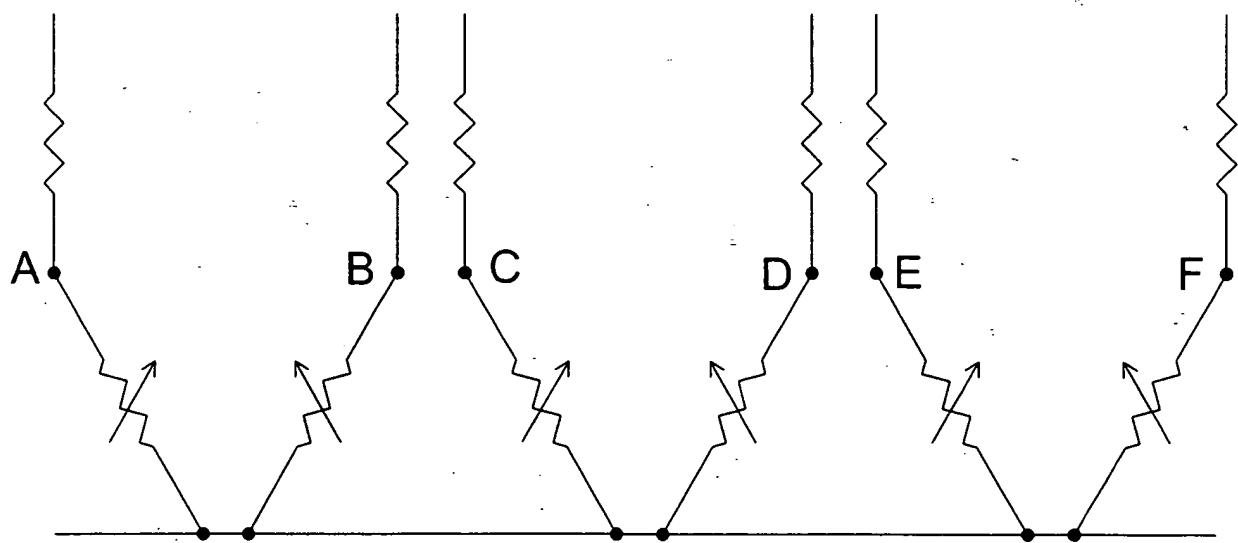
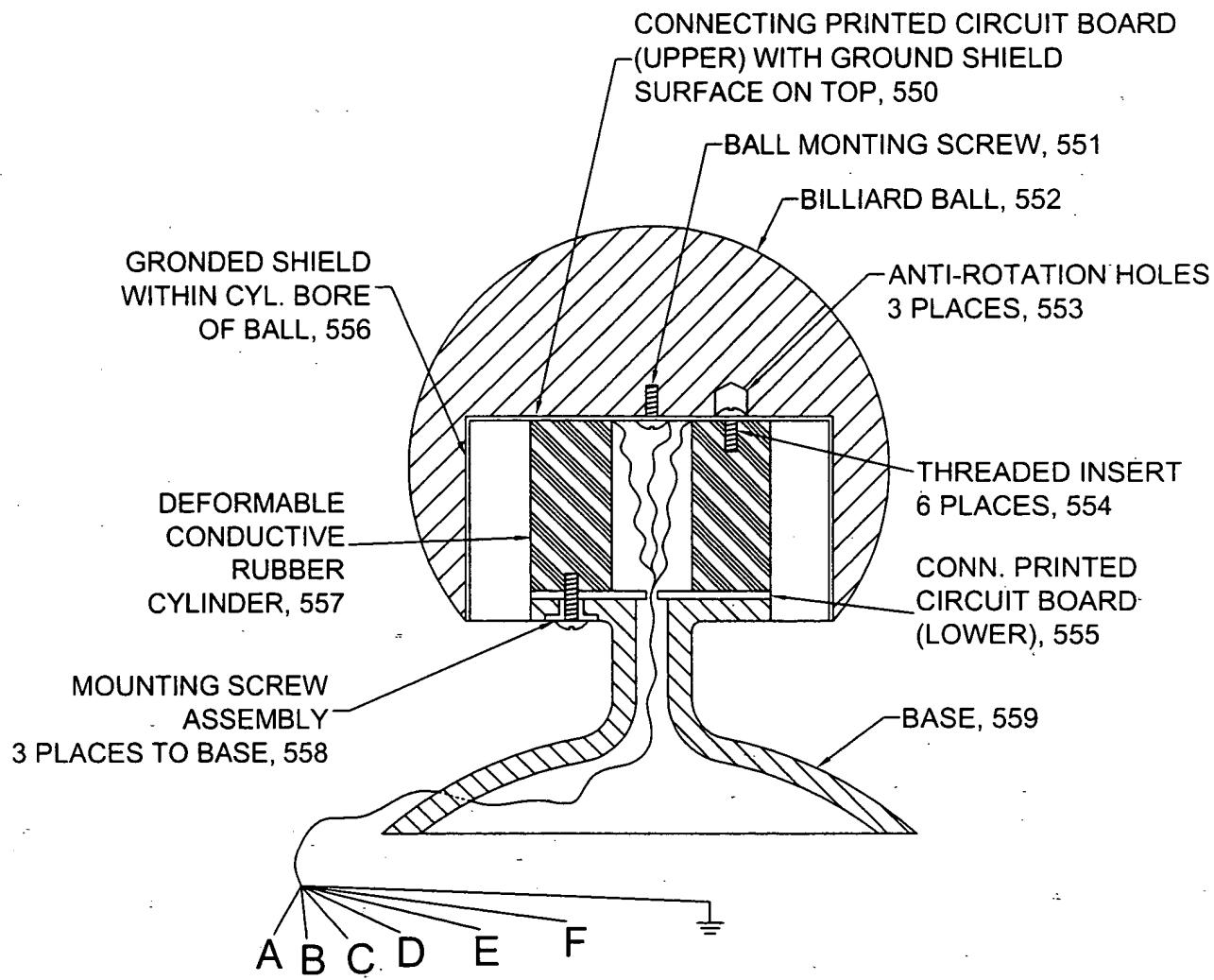


Fig. 45

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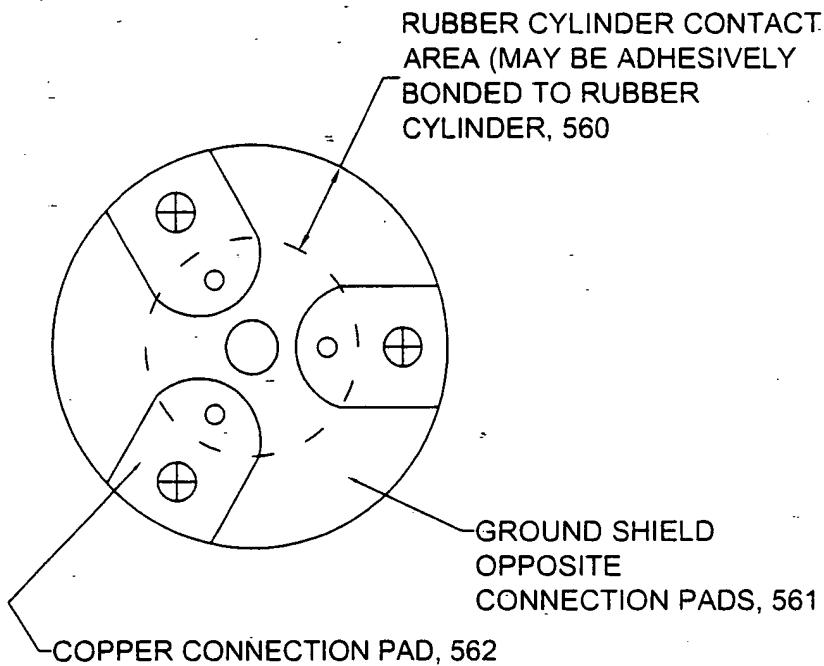


6-AXIS INPUT DEVICE

Fig. 46

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CONNECTING PRINTED CIRCUIT BOARD (TYP)

Fig. 48

INPUT VOLTAGE, 563
A, B, C

OUTPUT SIGNAL, 564
D, E, F

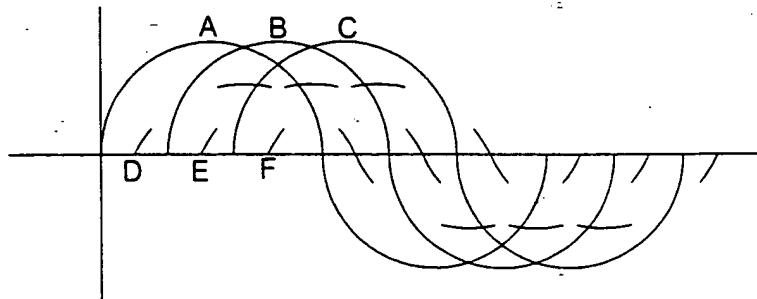
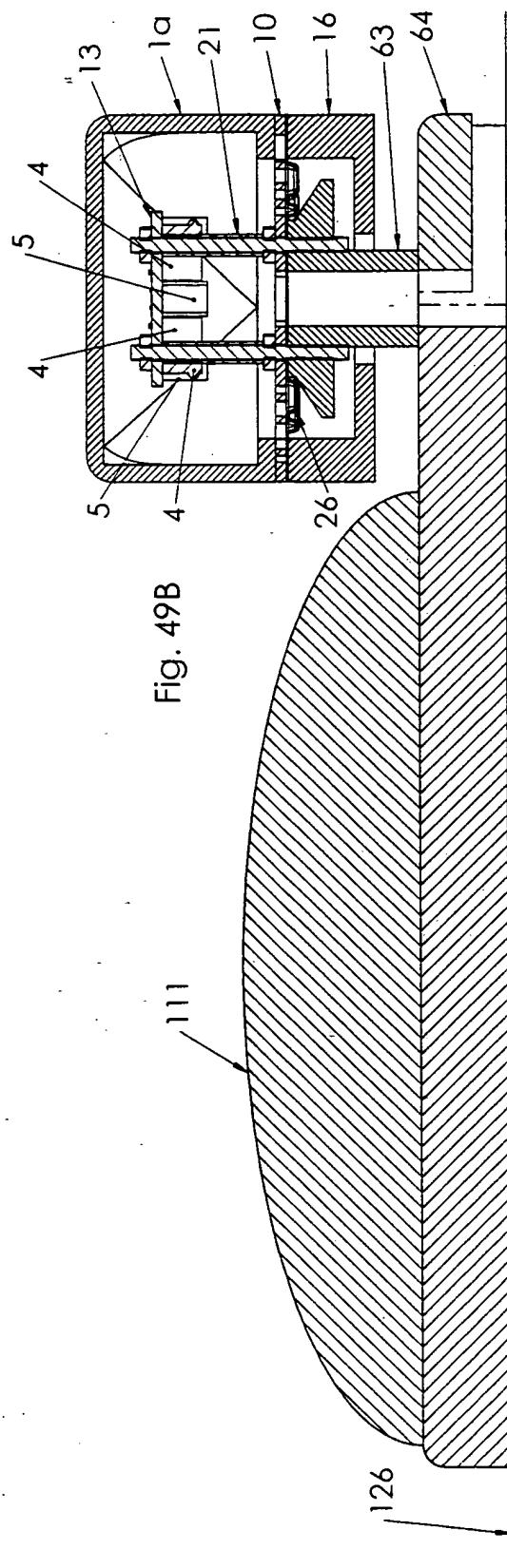
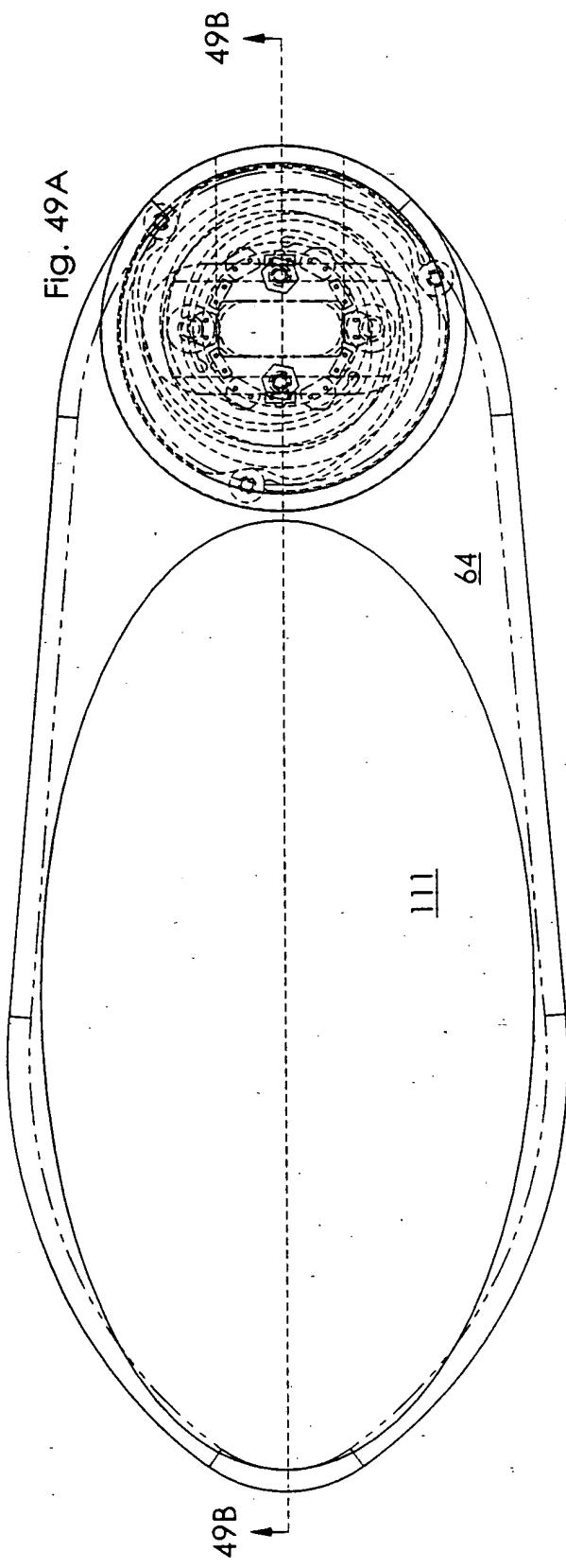


Fig. 47

VOLTAGES AND PHASE ANGLES OF D, E, AND F ARE A FUNCTION OF BALL POSITION AND ORIENTATION, 565

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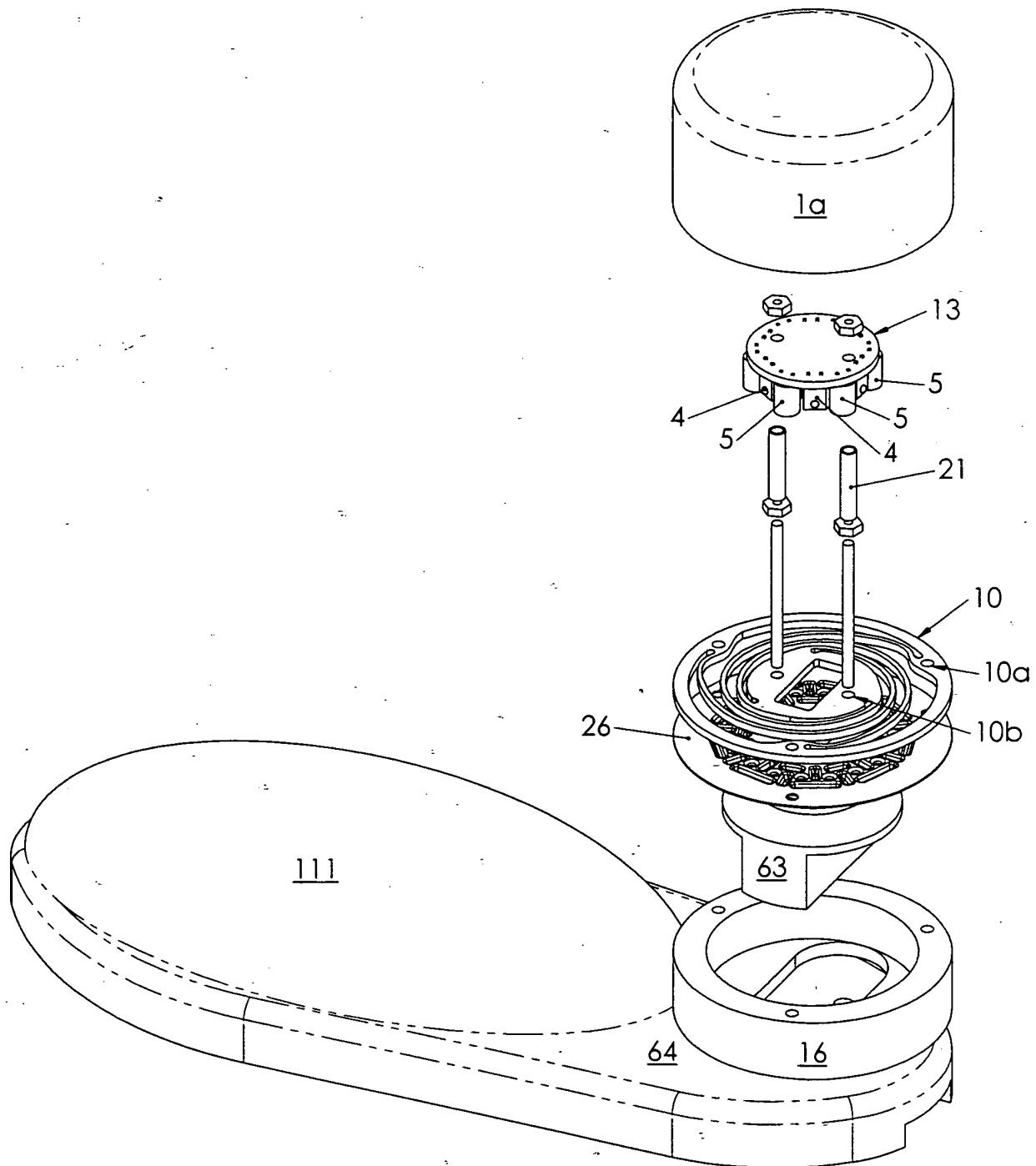


Fig. 49C

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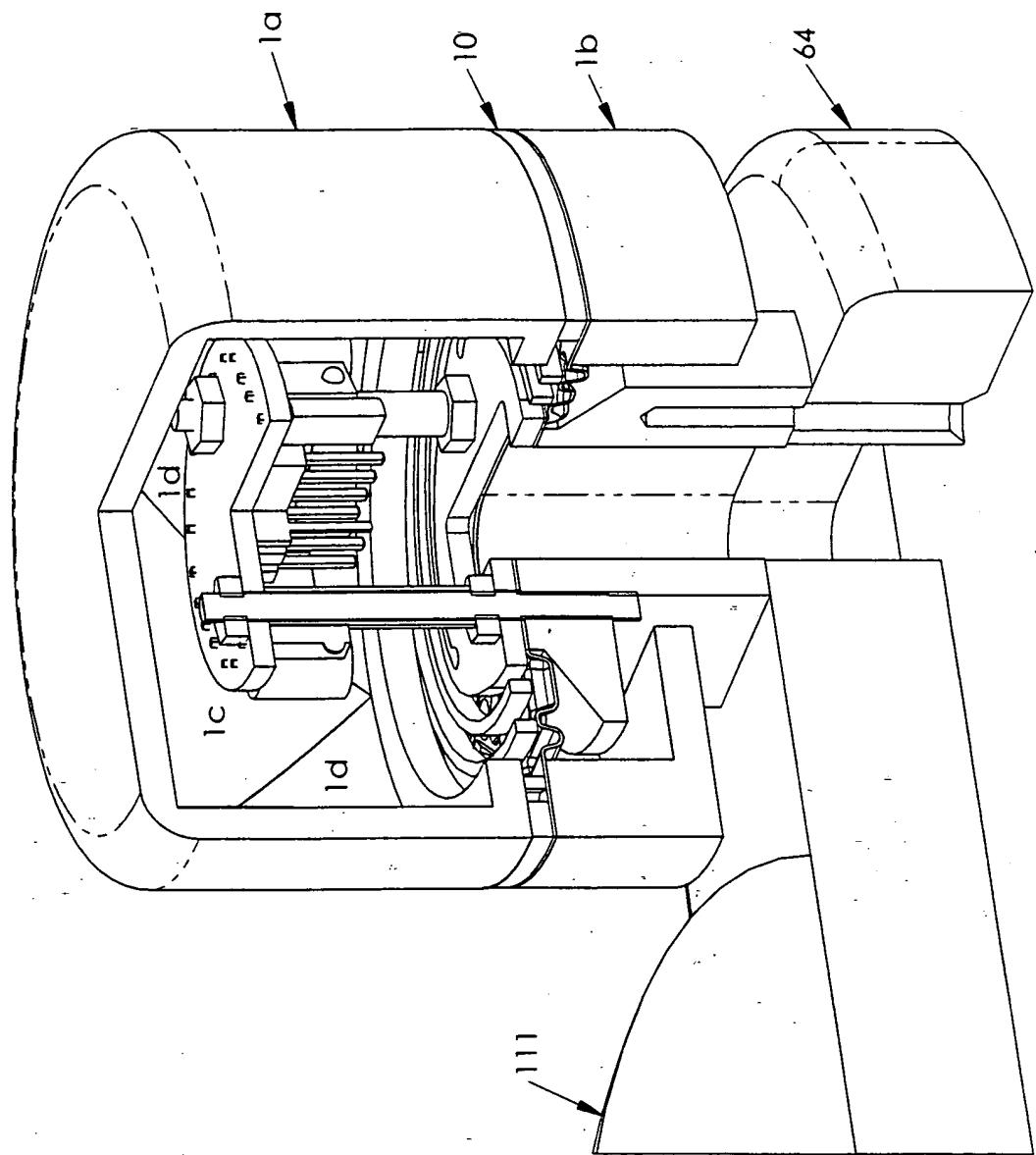
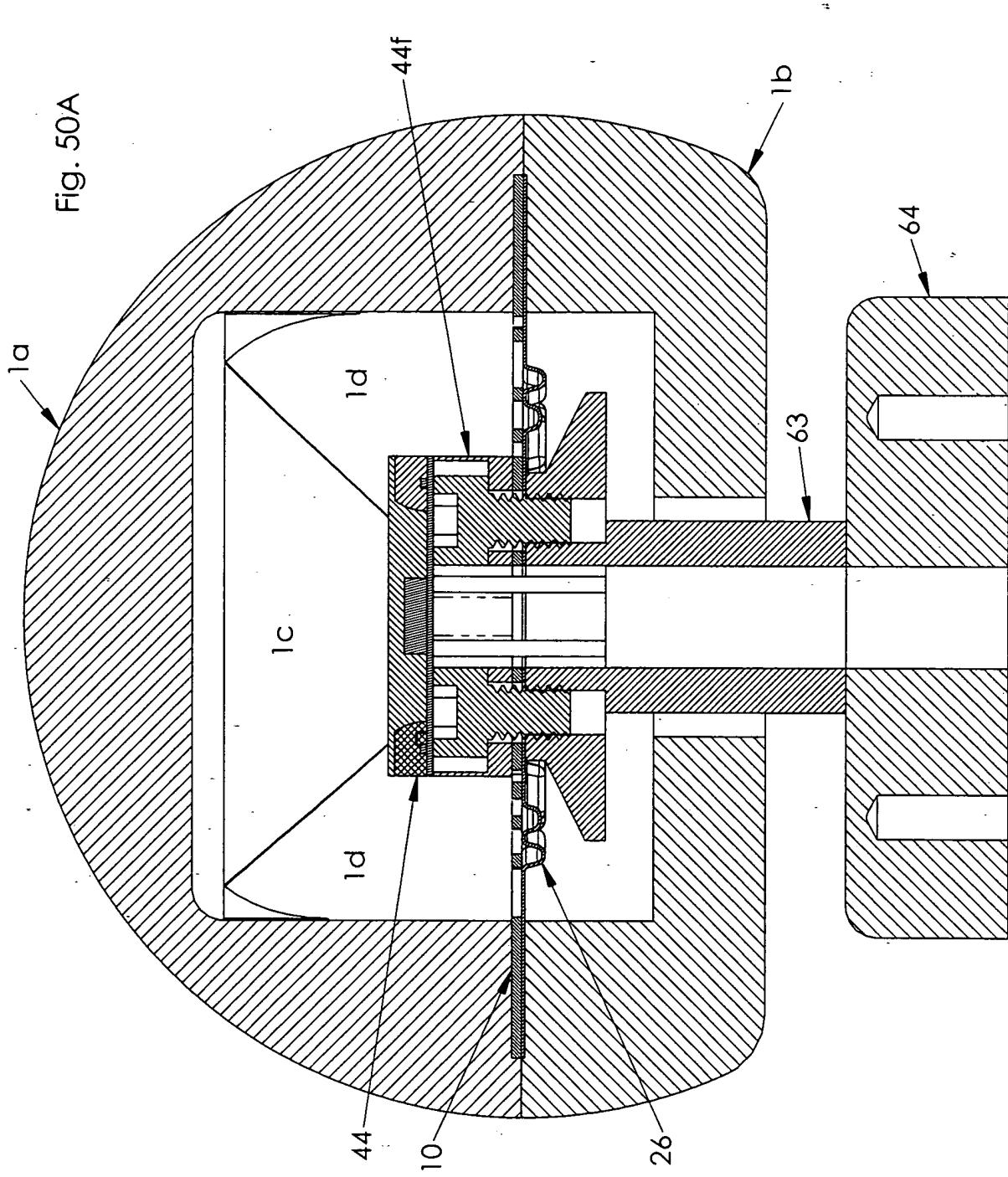


Fig. 49D

10/511110

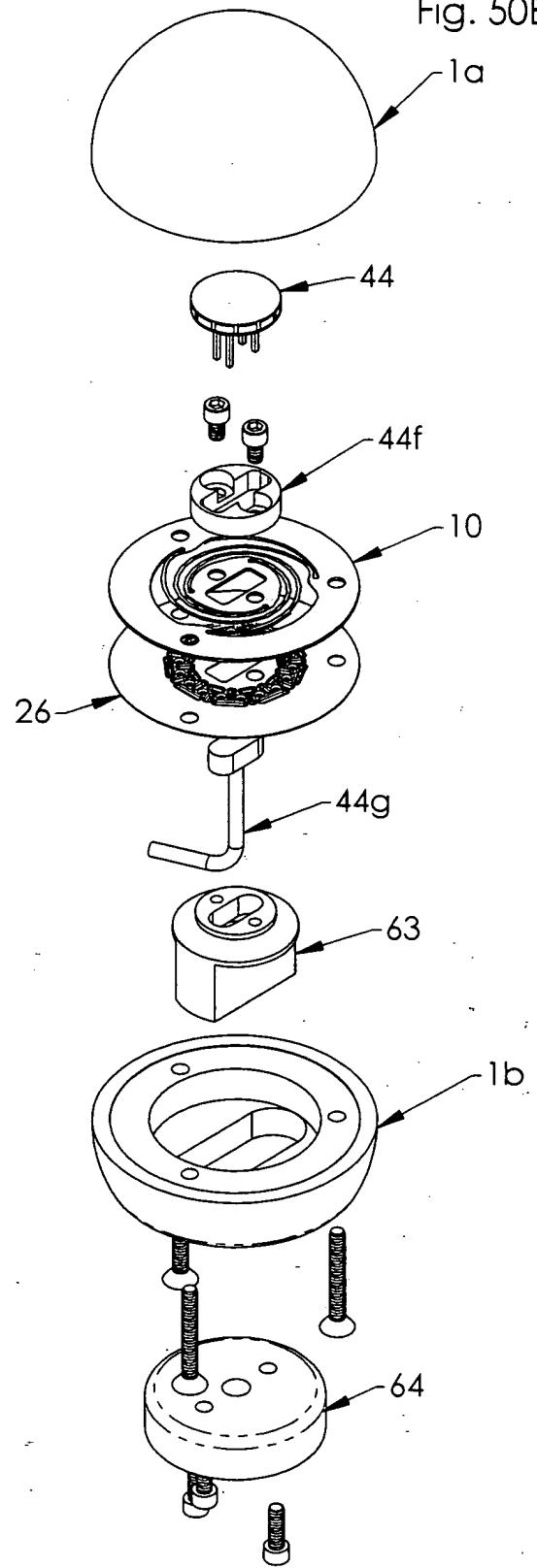
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Fig. 50B



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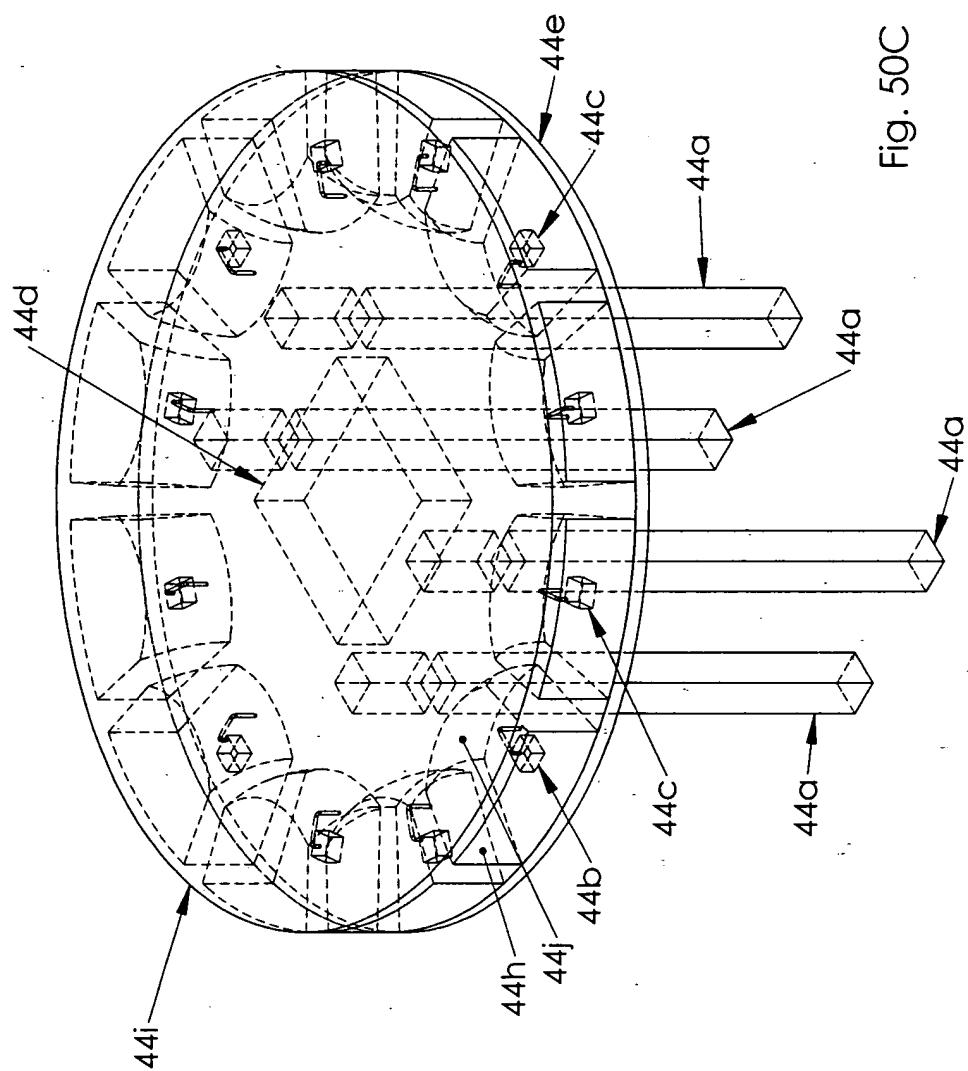


Fig. 50C

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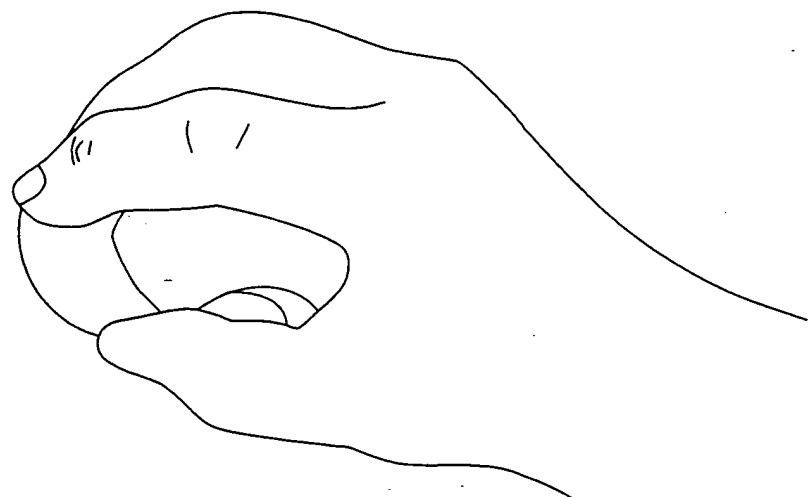


Fig. 51A

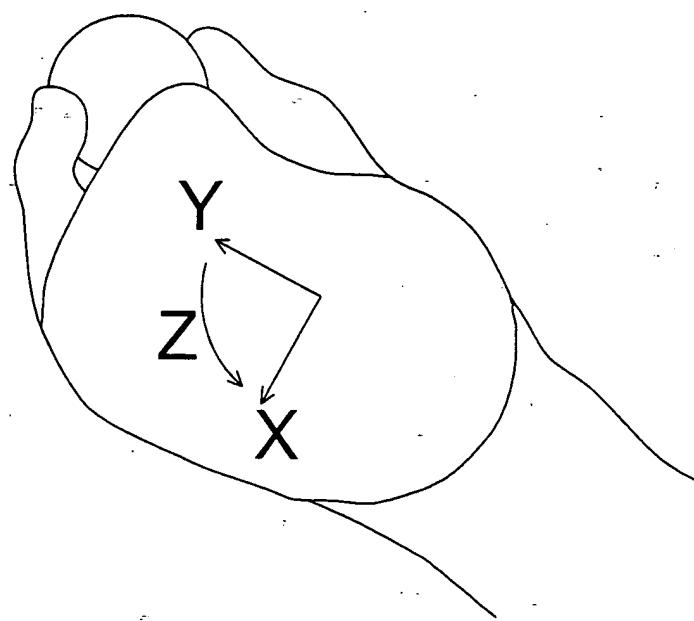


Fig. 51B

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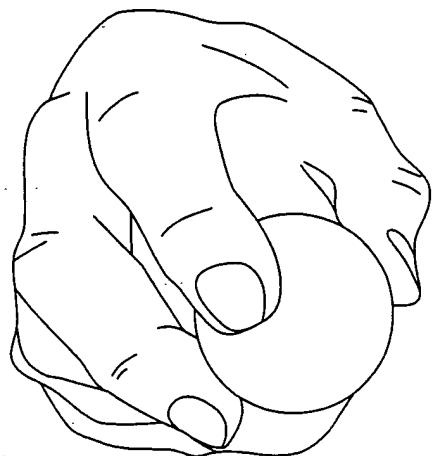


Fig. 51C

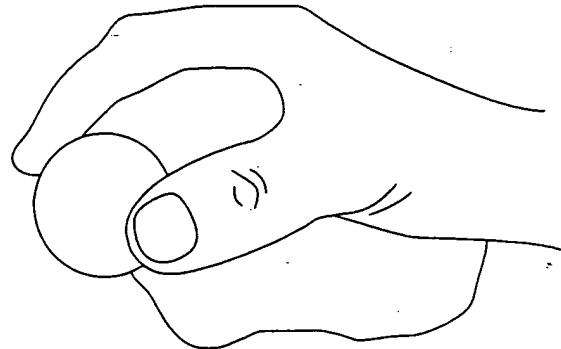


Fig. 51D

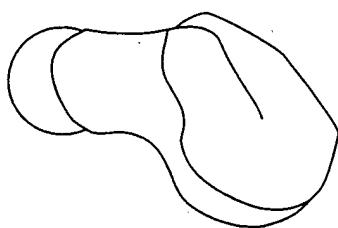


Fig. 51E

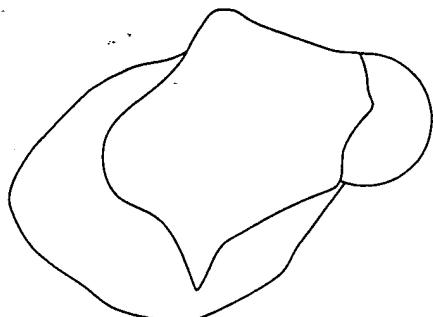


Fig. 51F

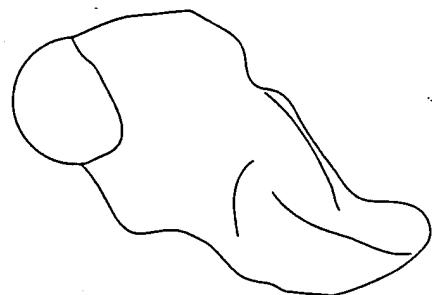
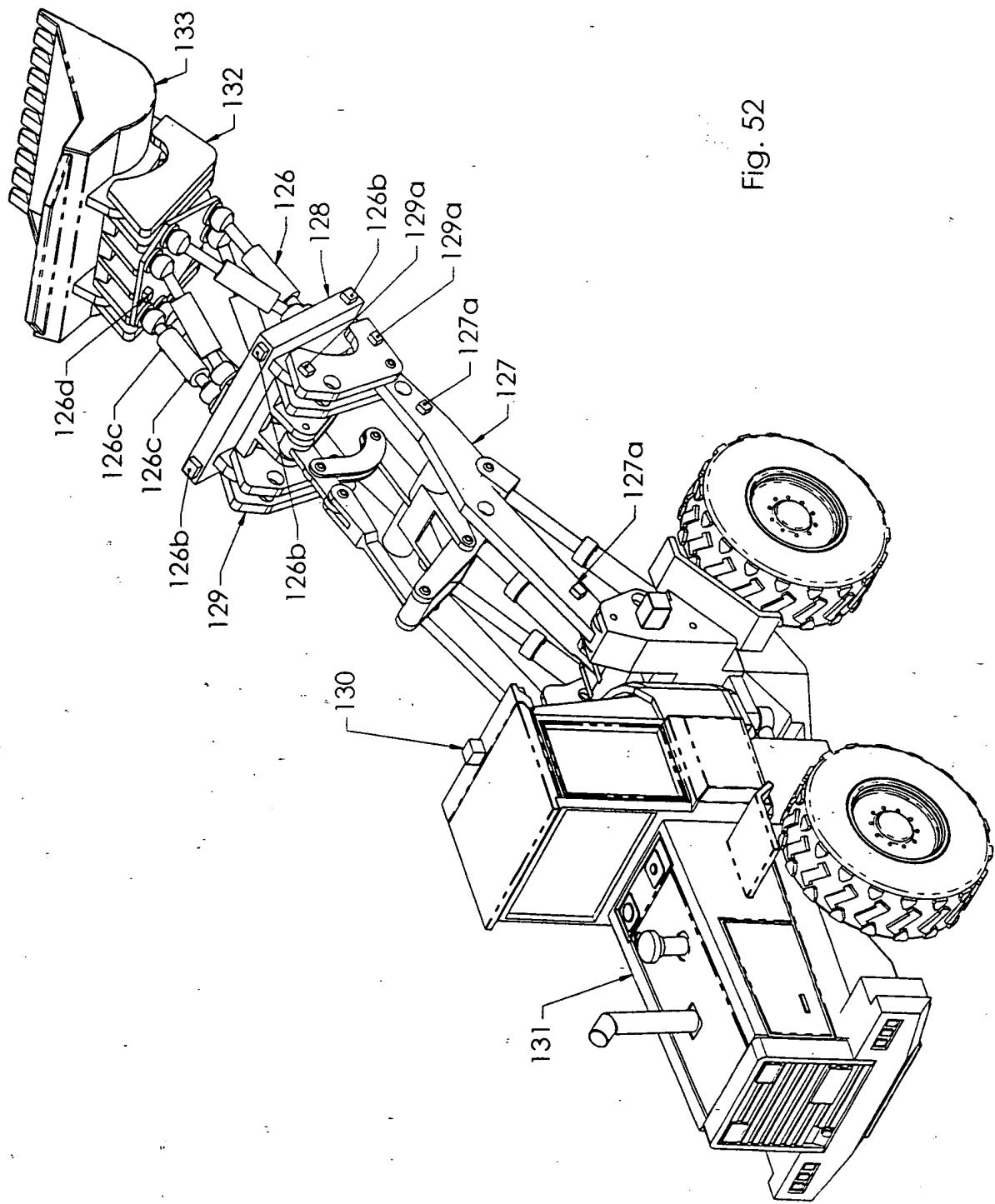


Fig. 51G

10/511110

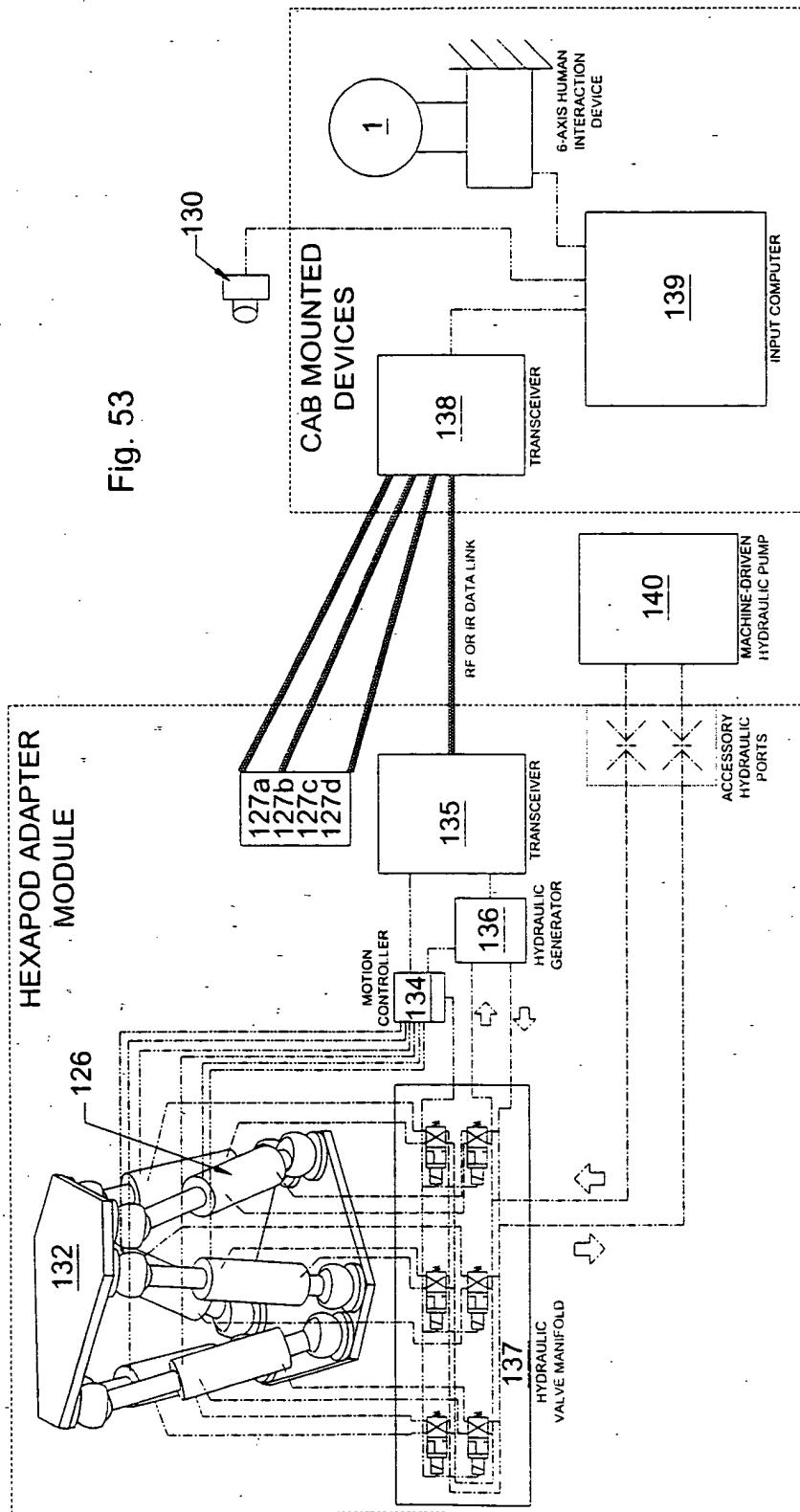
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Fig. 53



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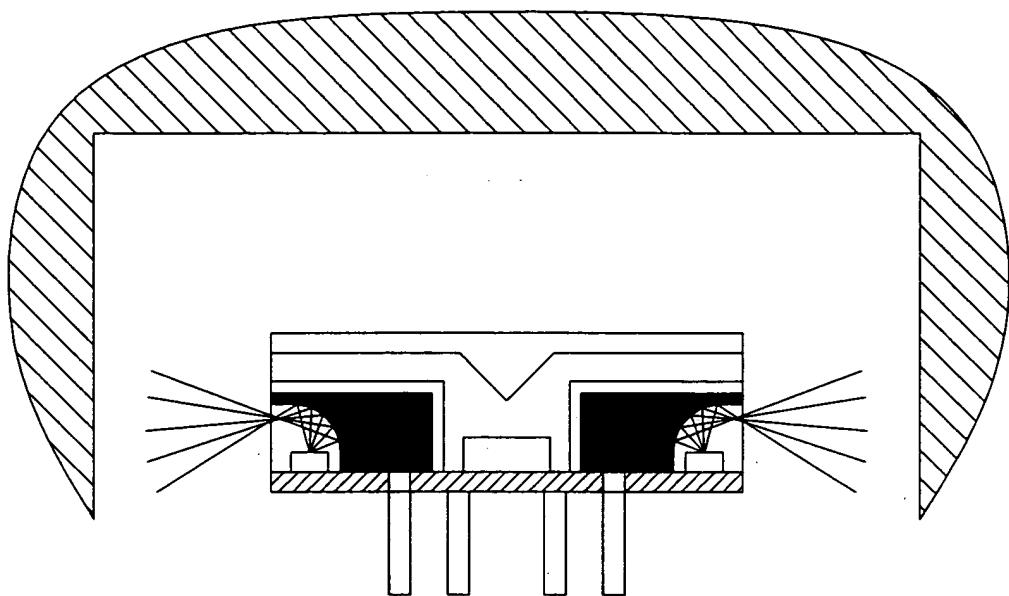


Fig. 54A

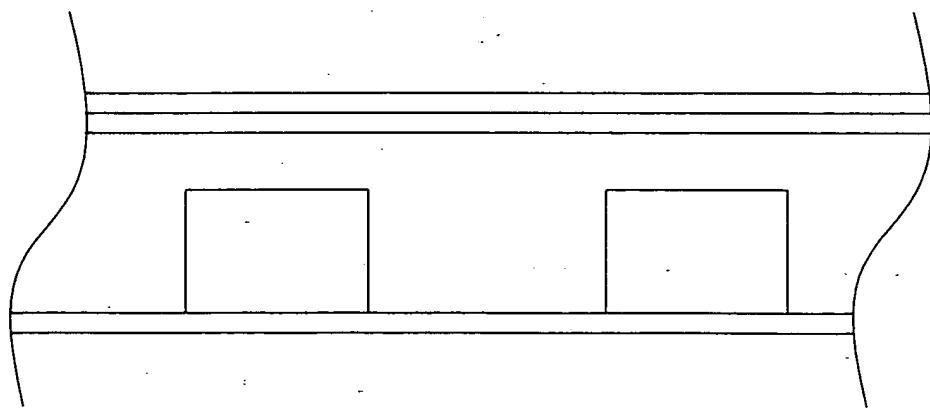


Fig. 54B

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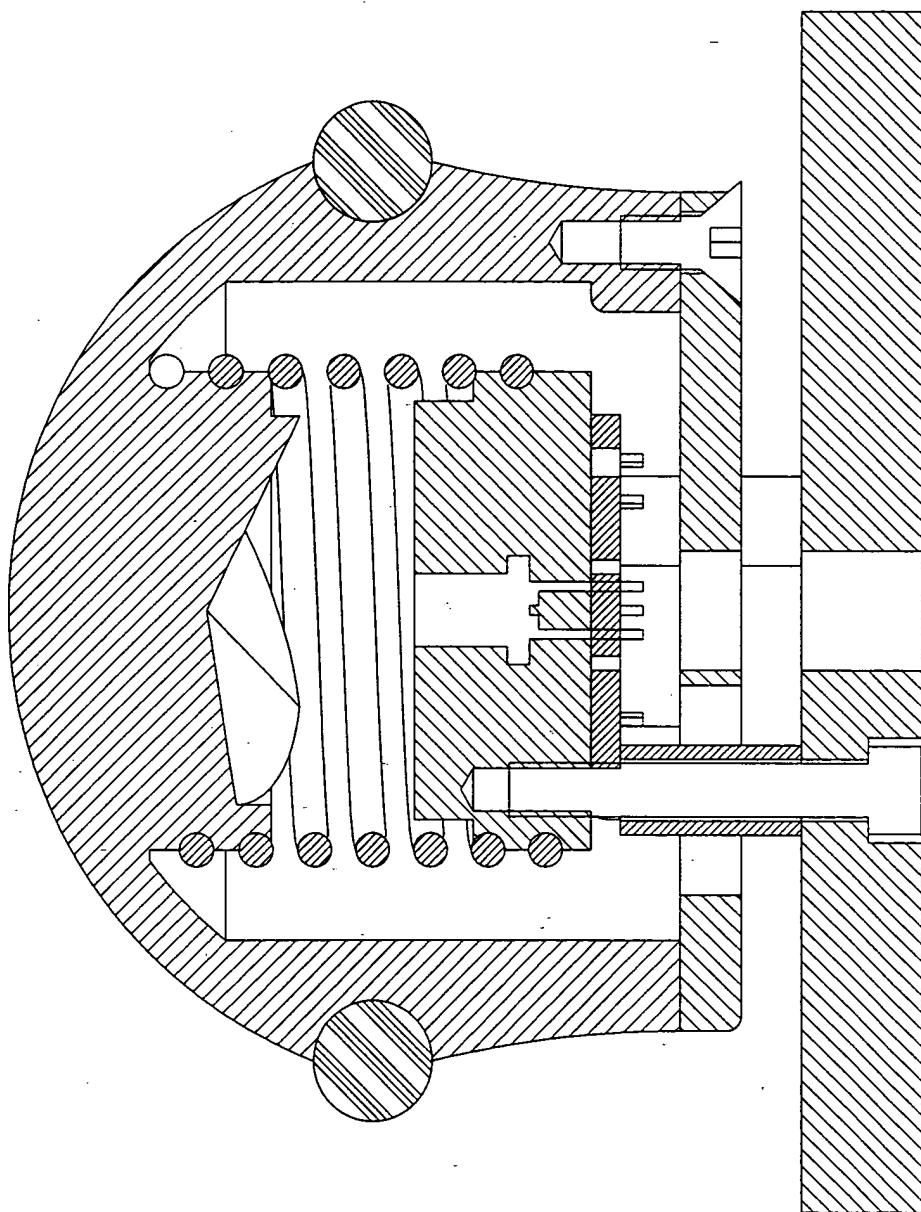


Fig. 55

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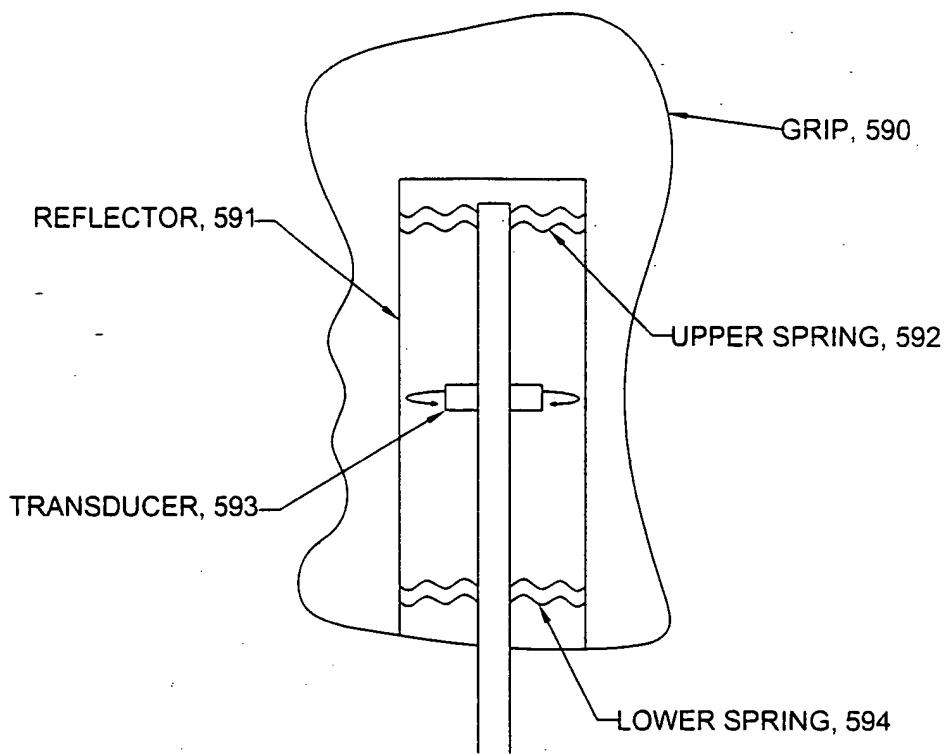


Fig. 56A

Fig. 56B

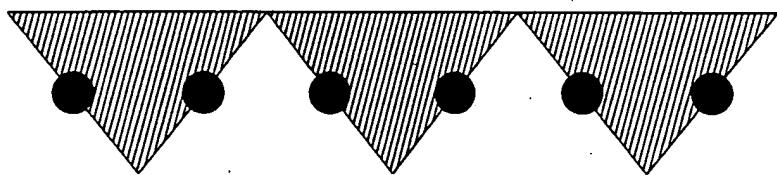
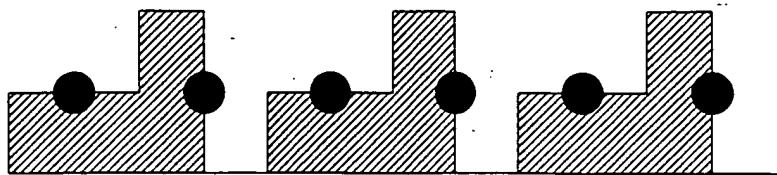


Fig. 56C



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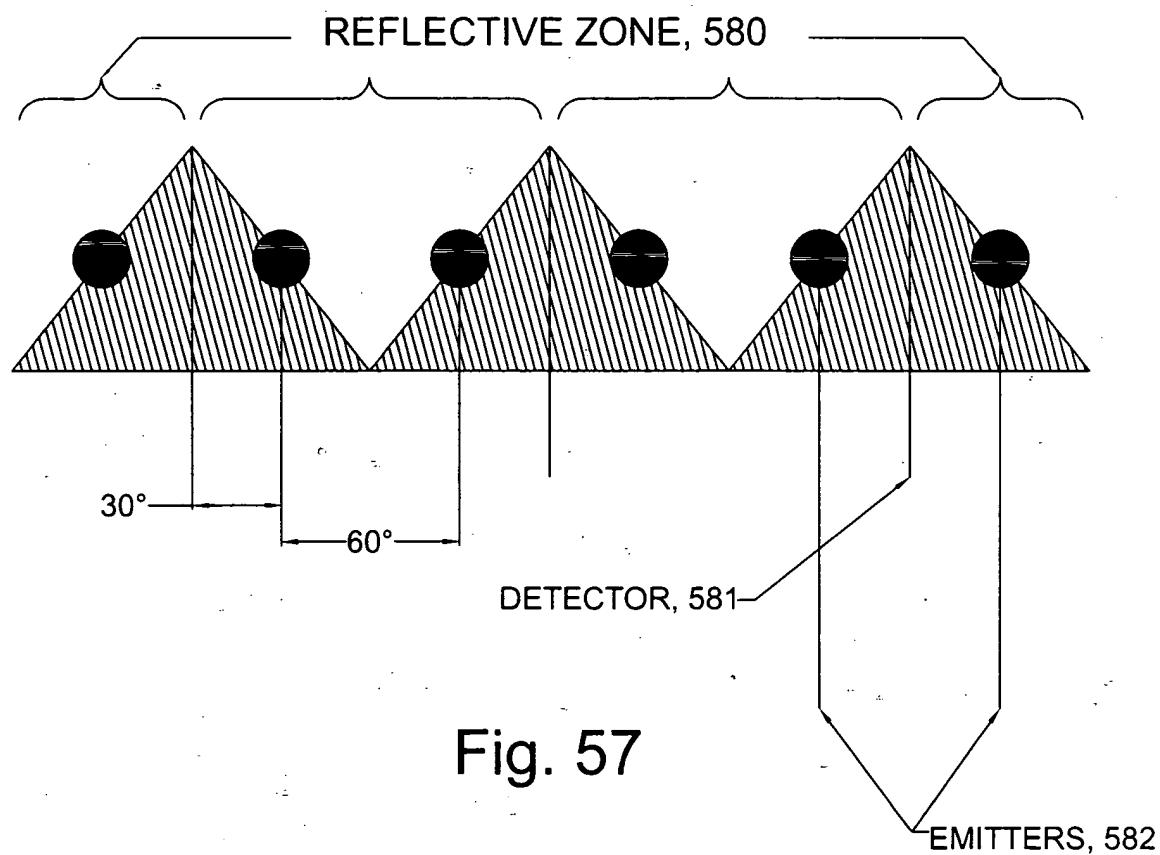


Fig. 57

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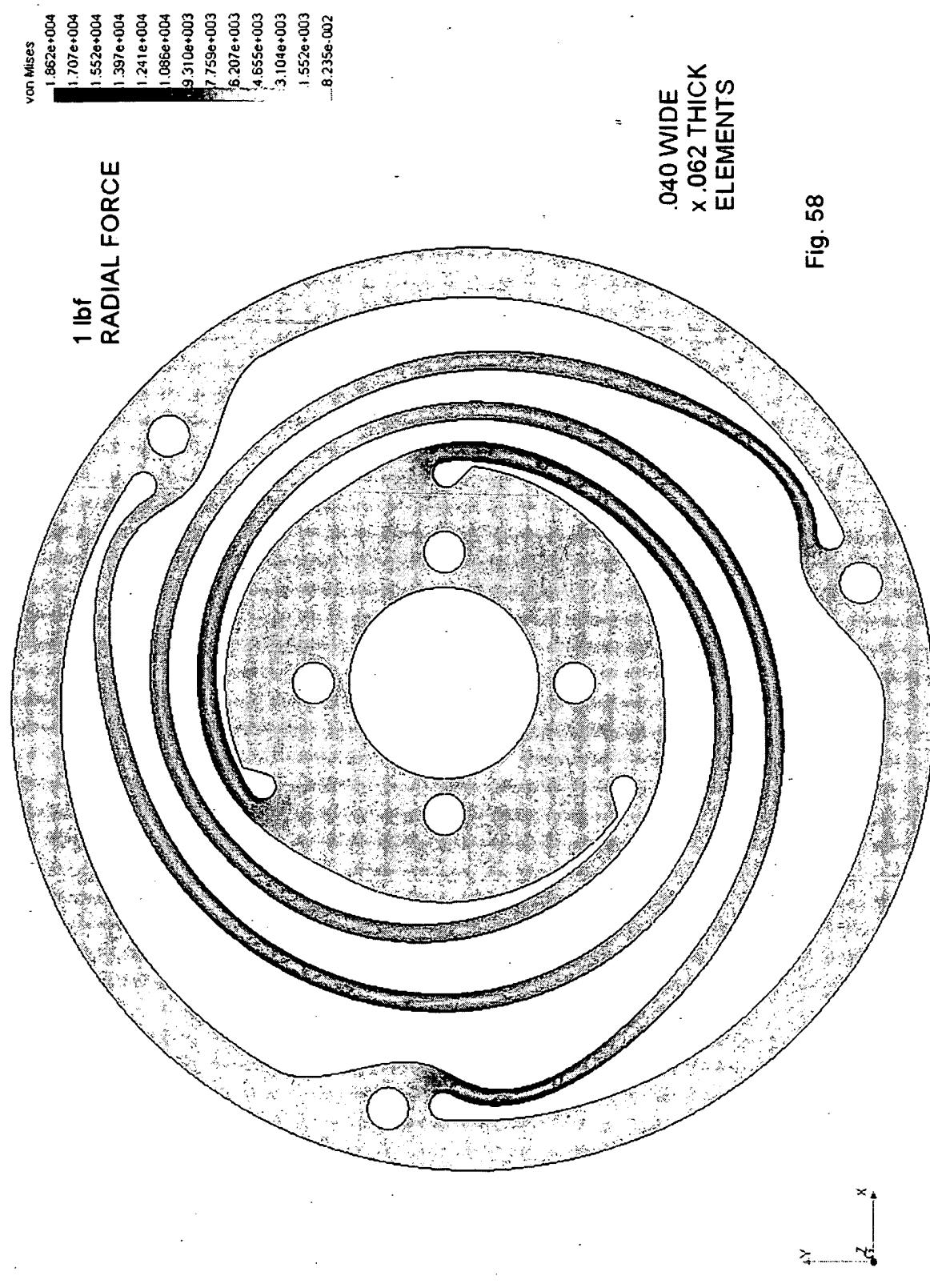
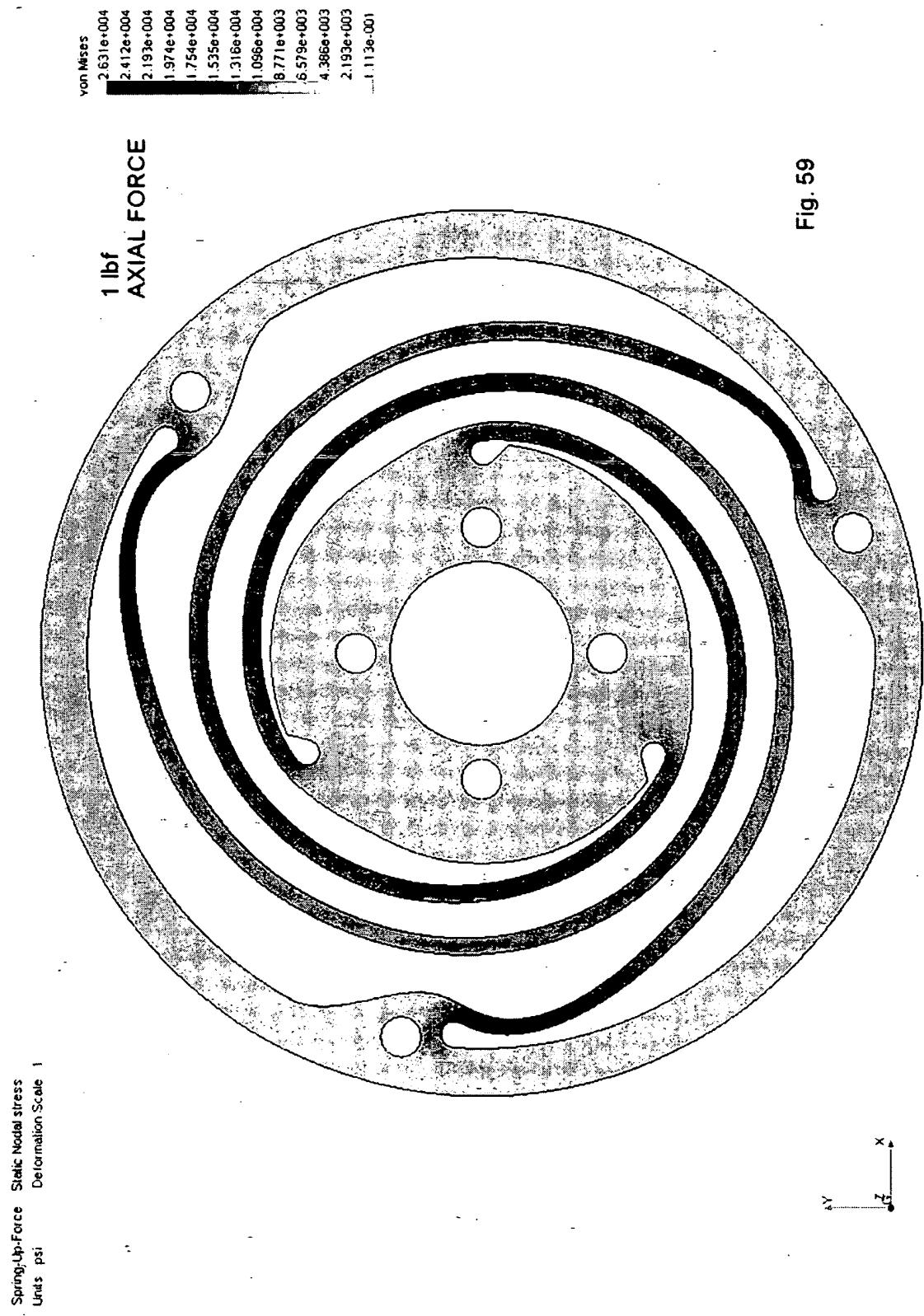


Fig. 58

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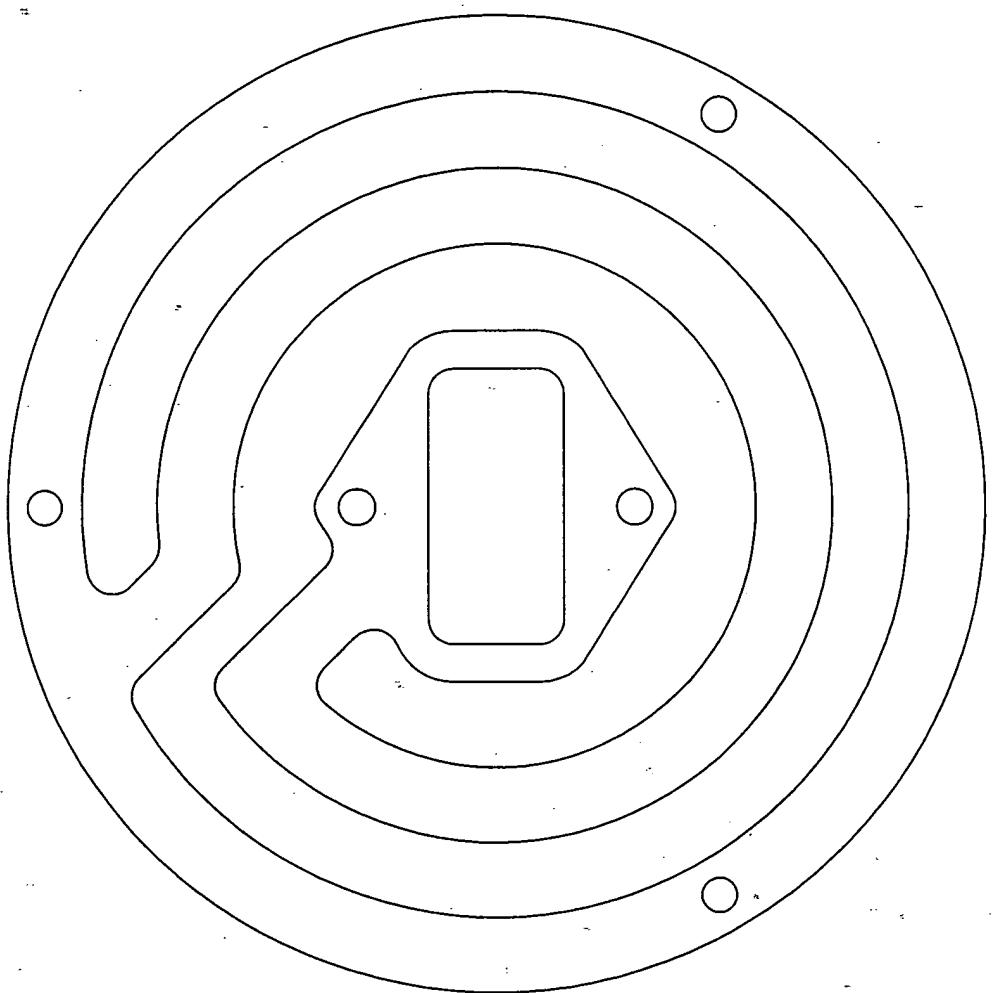
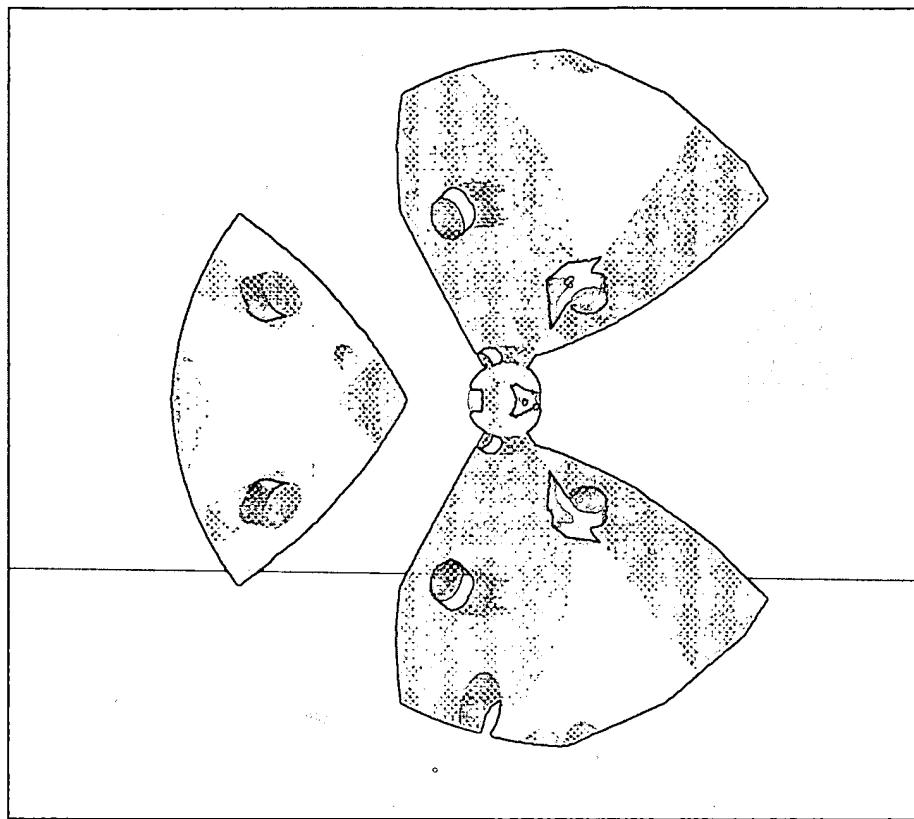


Fig. 60

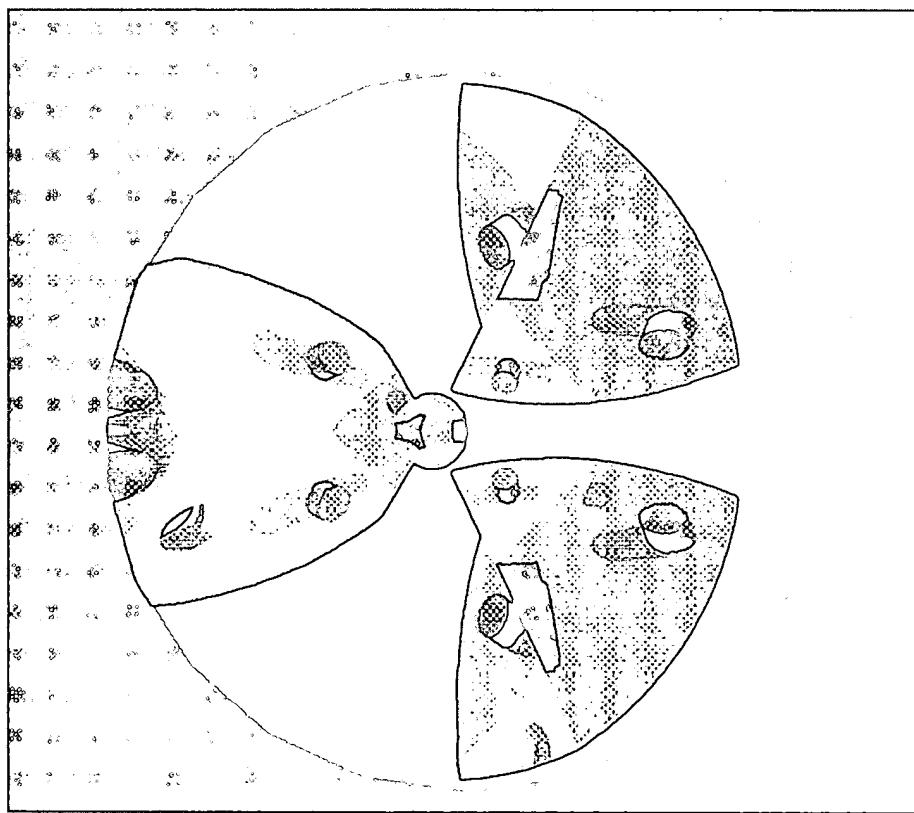
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X+ Fig. 61A



X- Fig. 61B

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